Graphics for Mathematics using LaTeX

Daniel J. Greenhoe

title:	*Graphics for Mathematics using LaTeX*
document type:	technical report
author:	Daniel J. Greenhoe
version:	VERSION 0.10
time stamp:	2019 December 10 (Tuesday) 10:35am UTC
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typesetting engine:	XeLaTeX

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The ship appearing throughout this text is loosely based on the *Golden Hind*, a sixteenth century English galleon famous for circumnavigating the globe.[a]

[a] ? page 63 ⟨Golden Hind⟩

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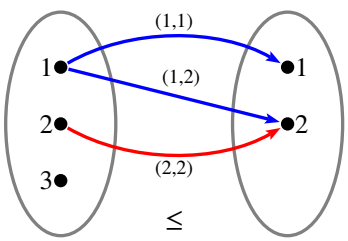
CHAPTER 1

GENERAL

1.1 Miscellaneous: common/math/graphics



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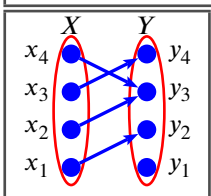

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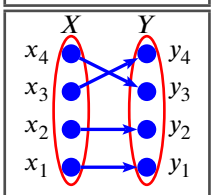

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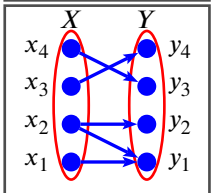

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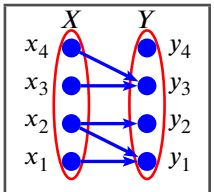

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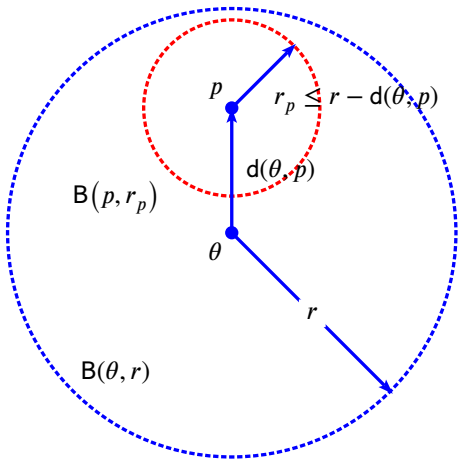

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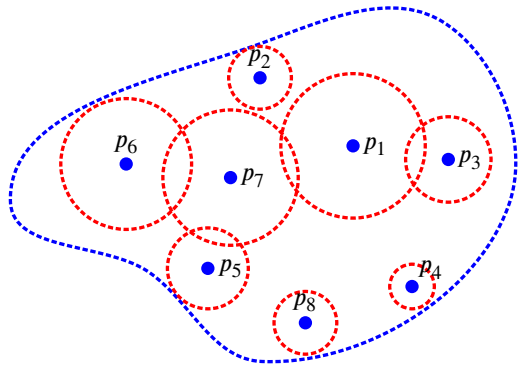

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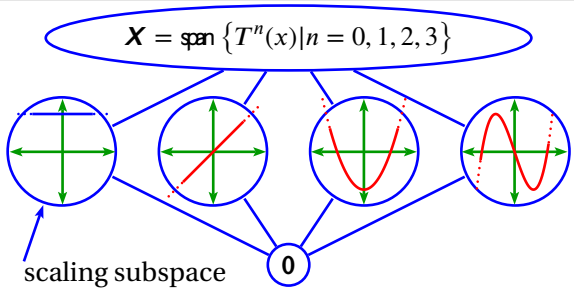

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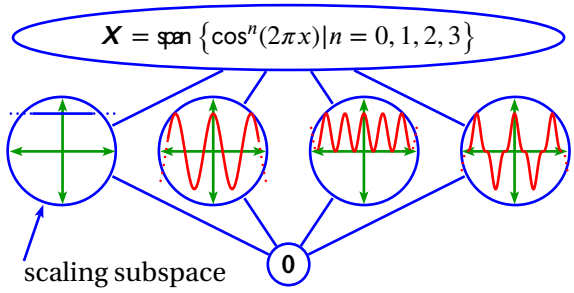

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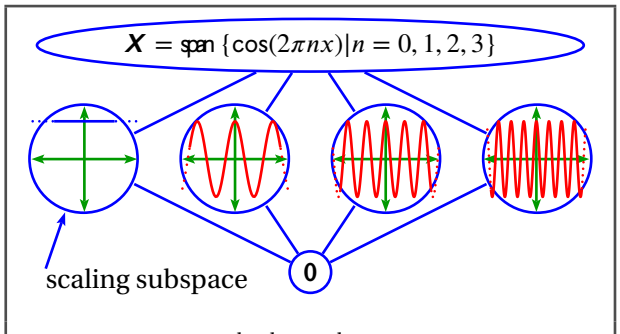

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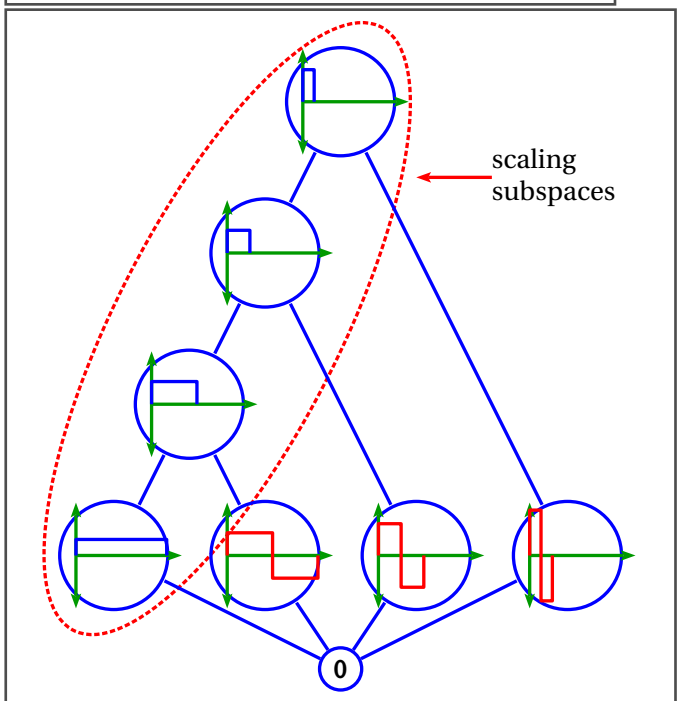

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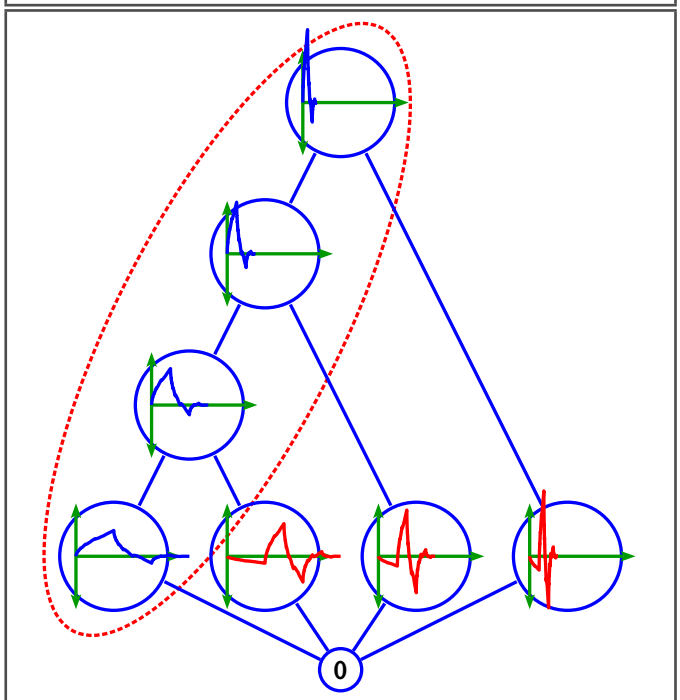

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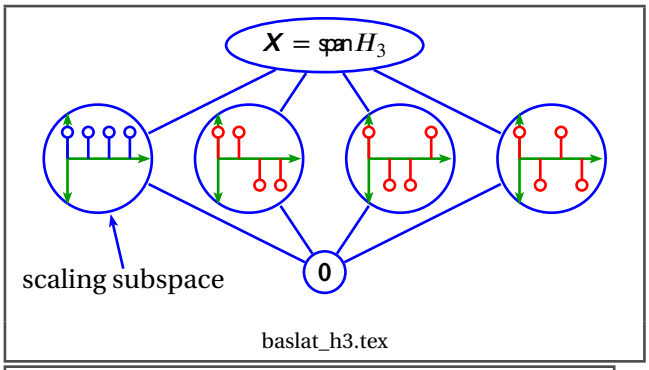

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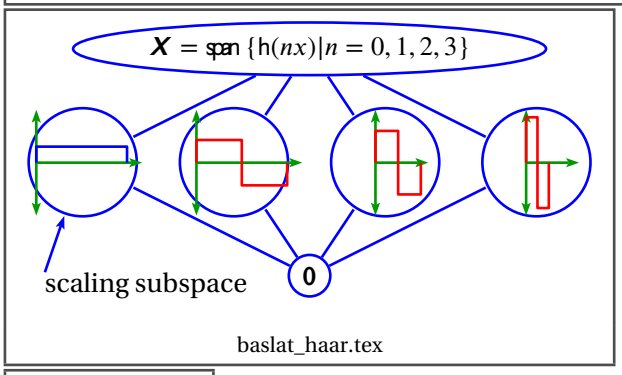

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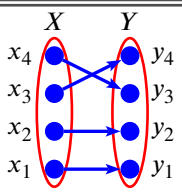

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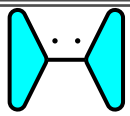

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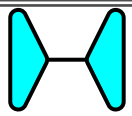

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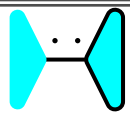

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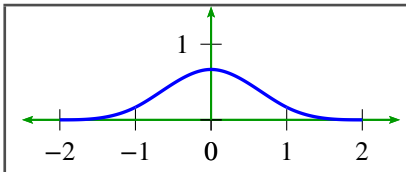

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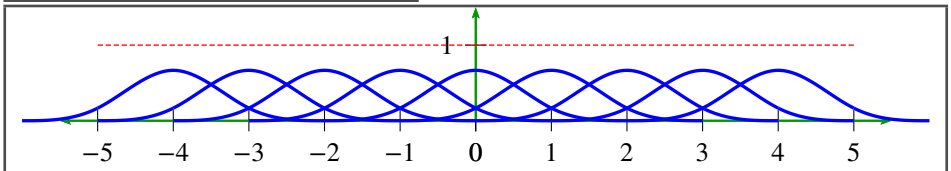

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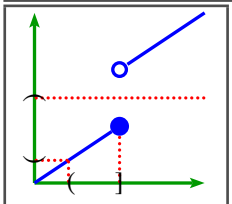

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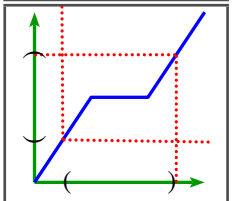

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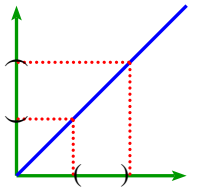

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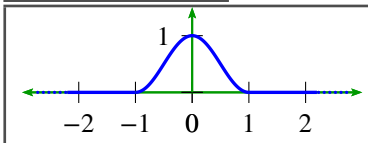

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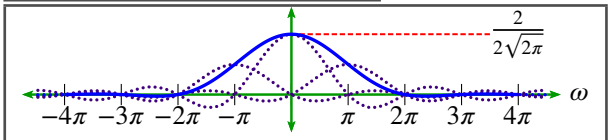

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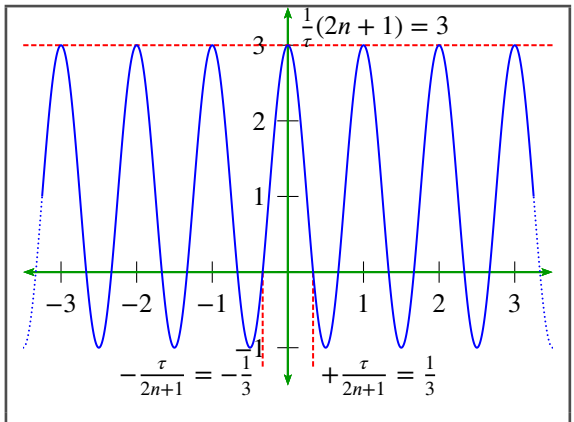

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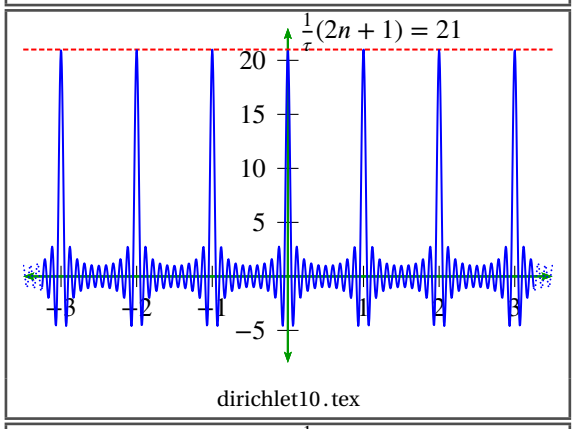

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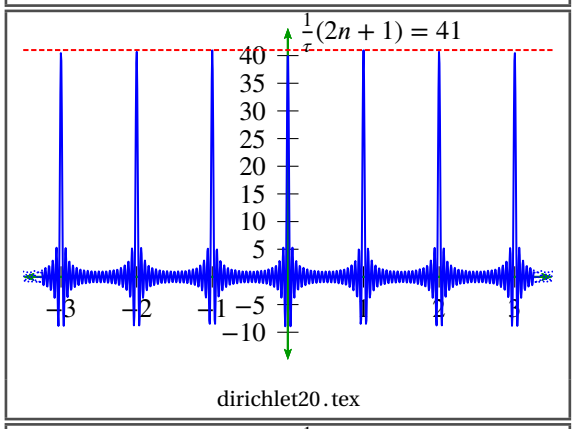

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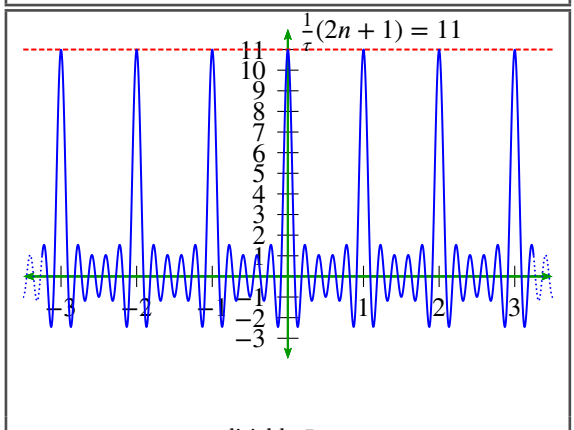

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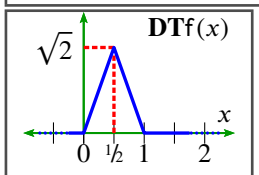

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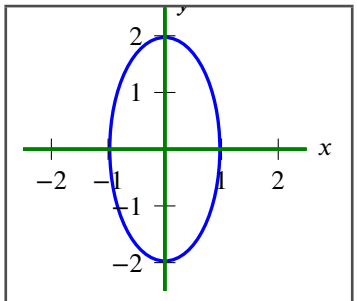

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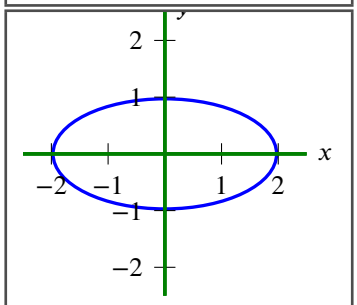

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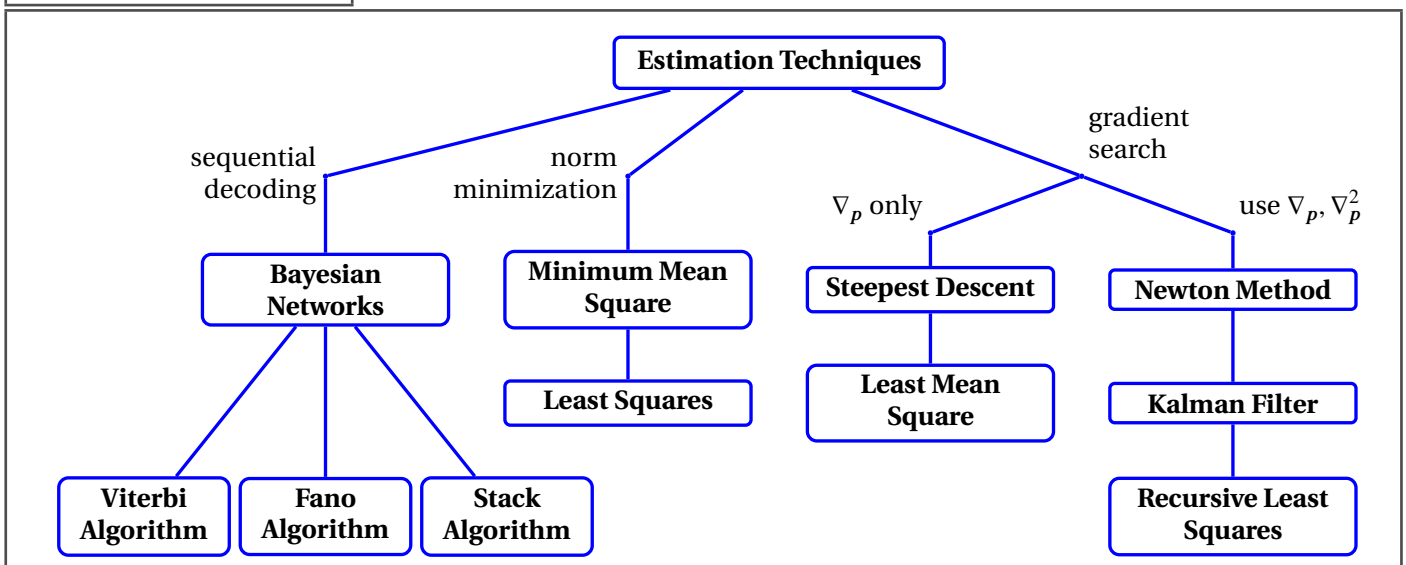

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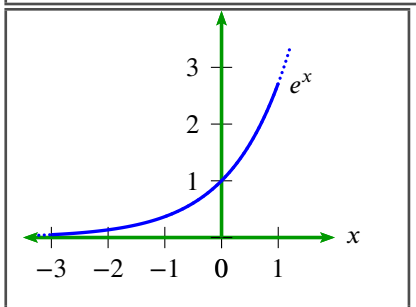

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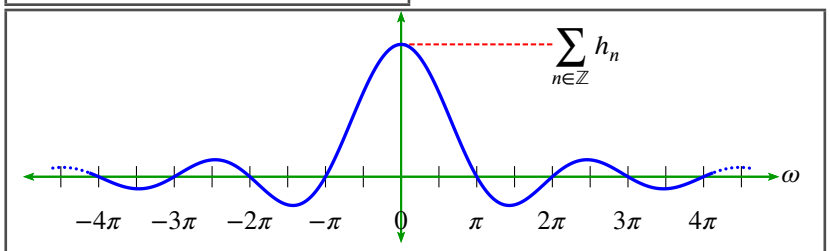

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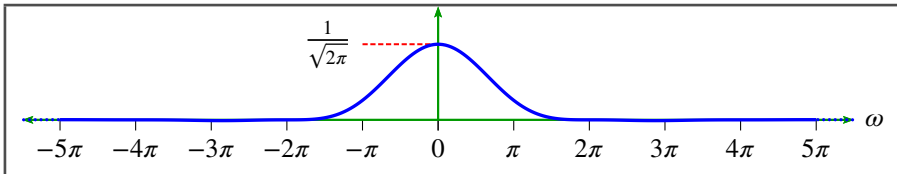

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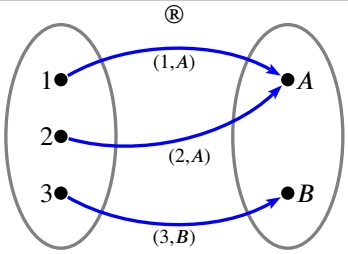

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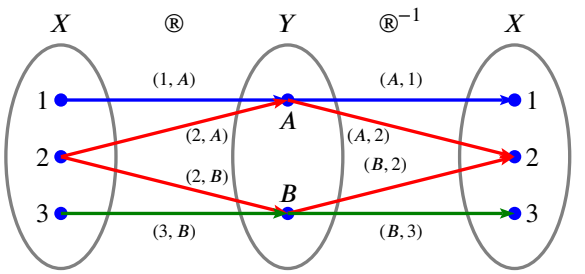

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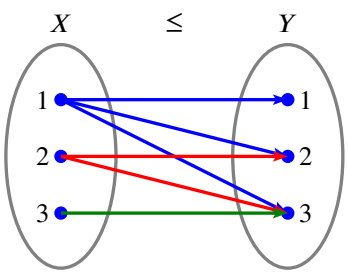

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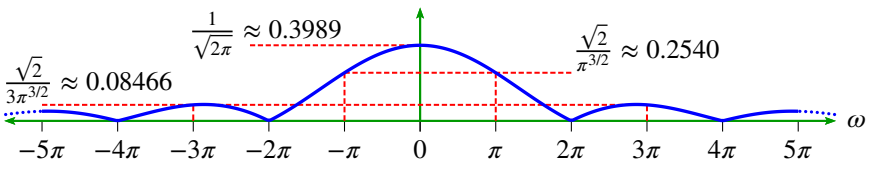

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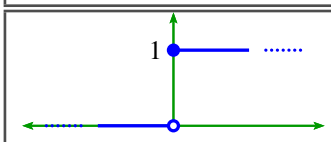

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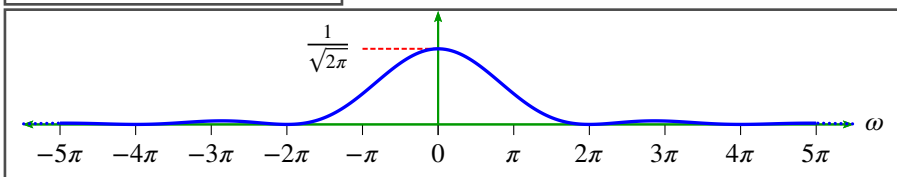

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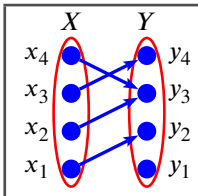

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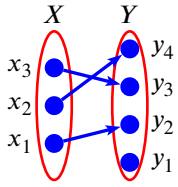

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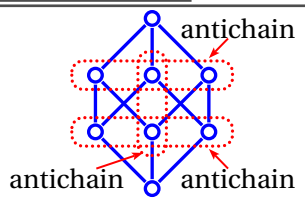

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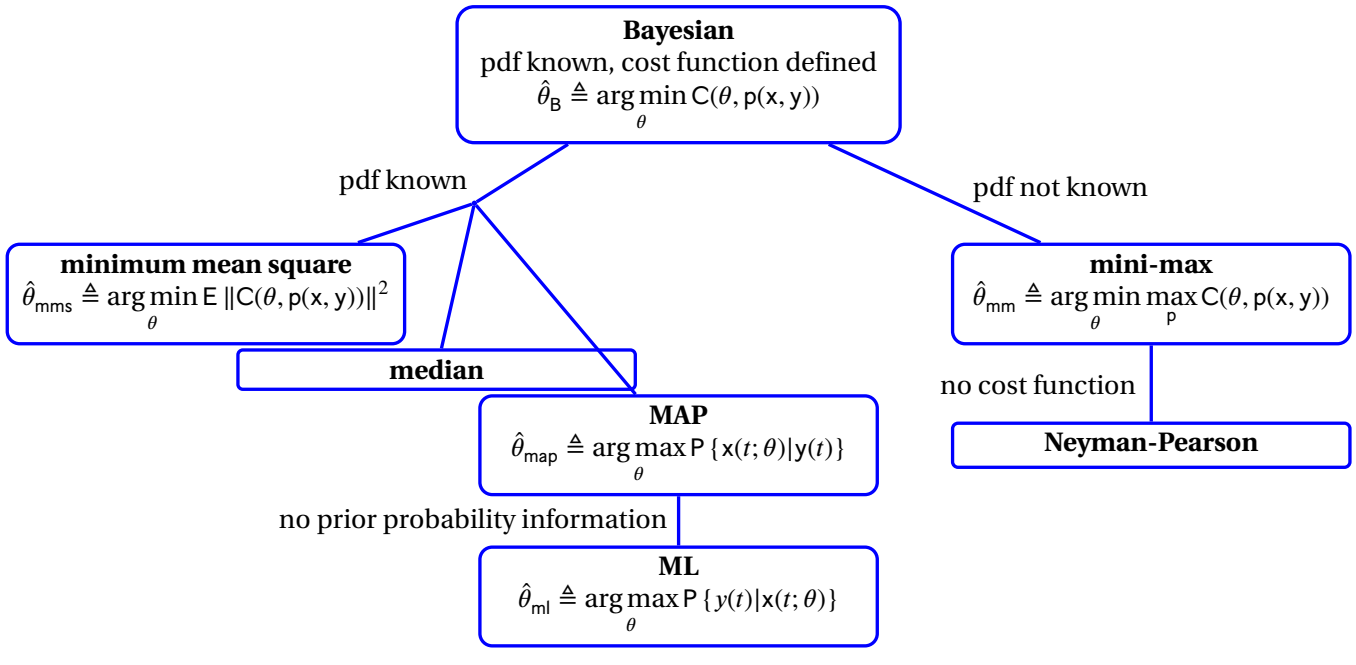

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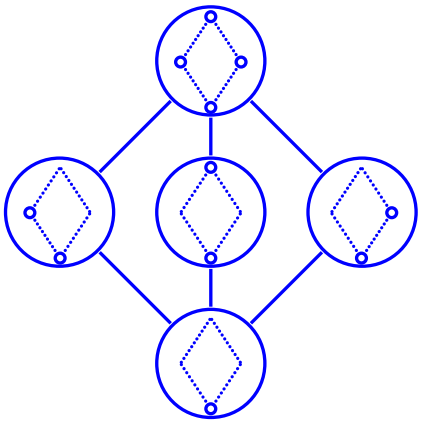

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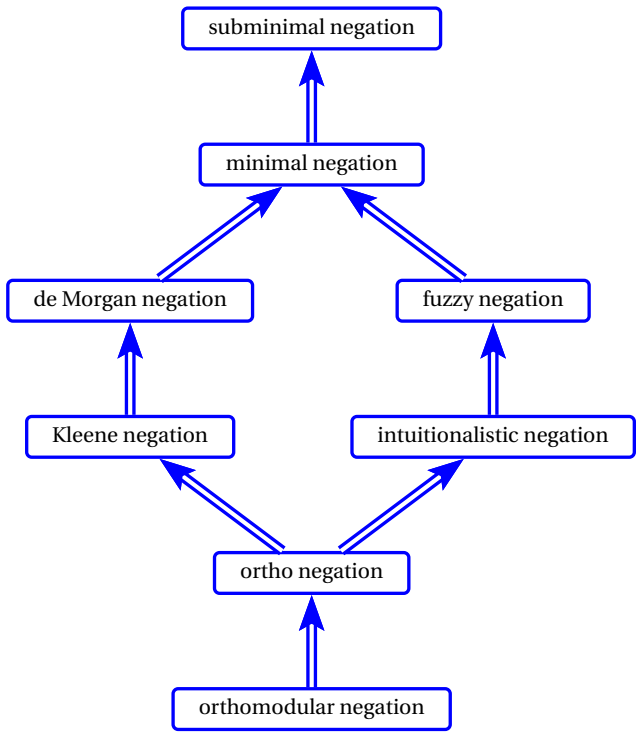

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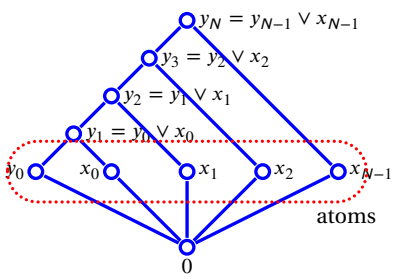

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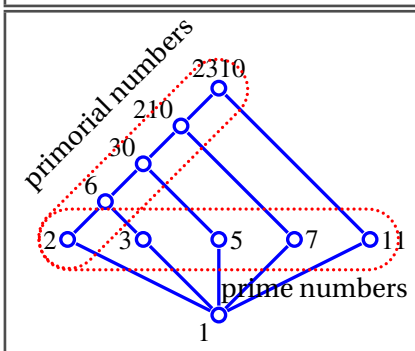

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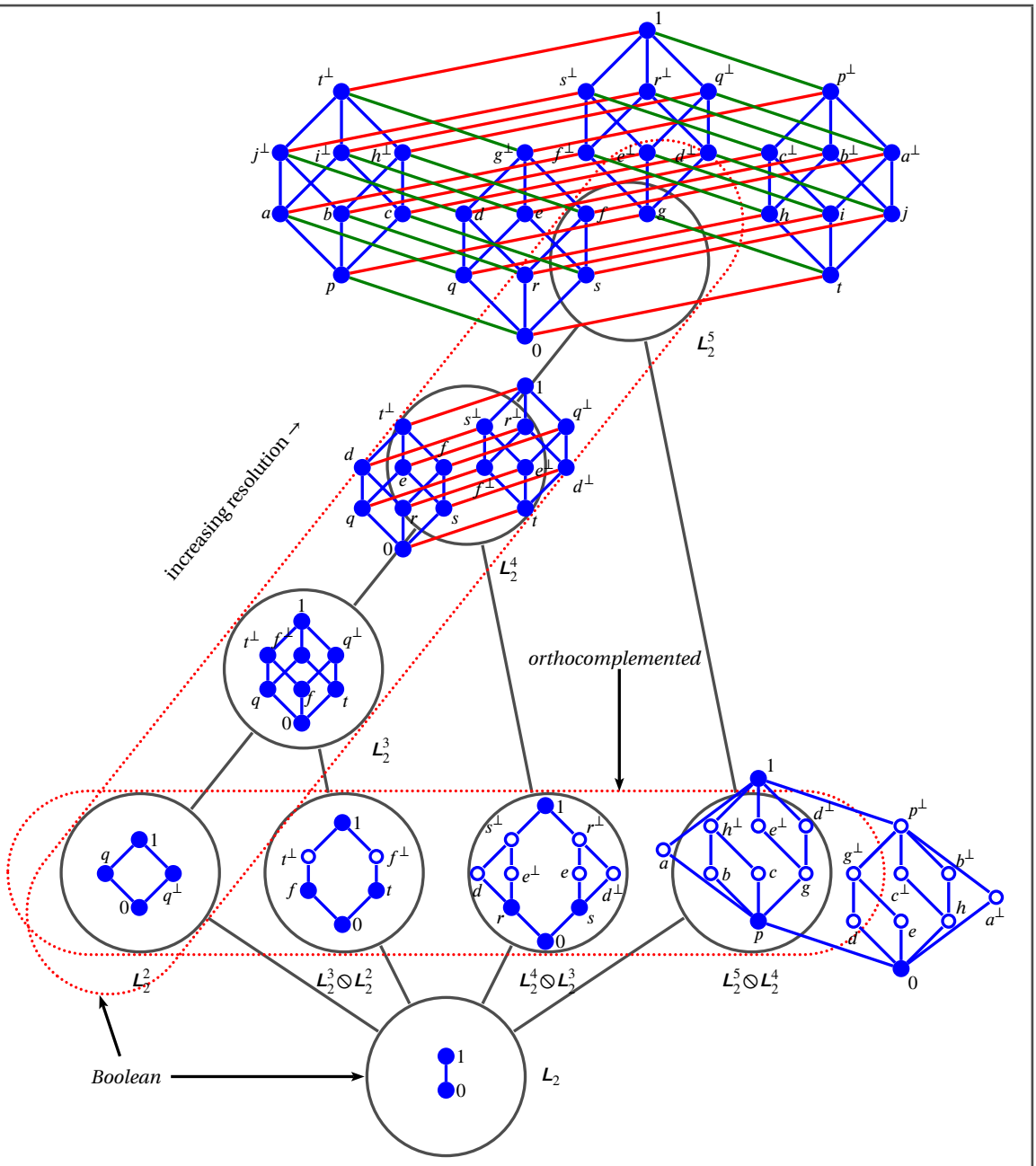

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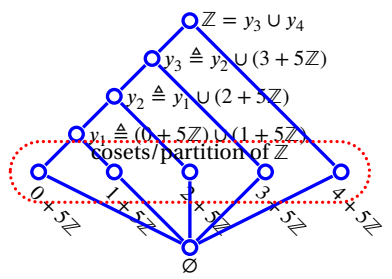

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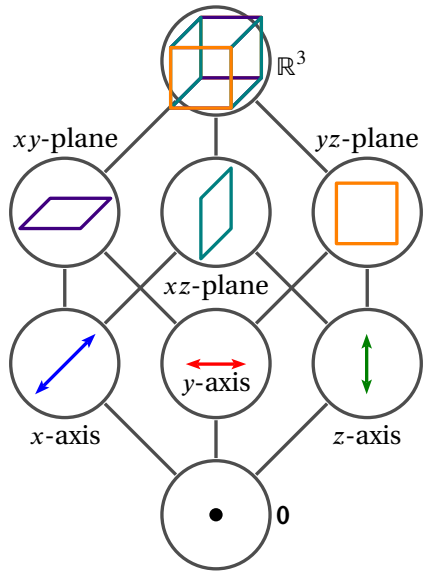

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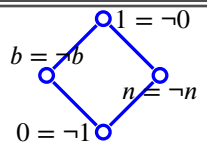

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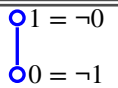

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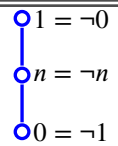

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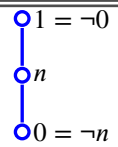

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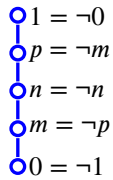

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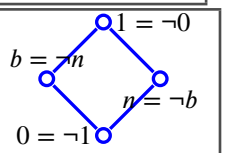

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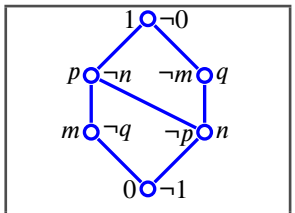

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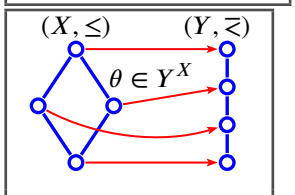

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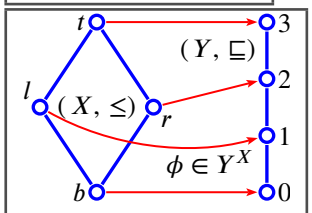

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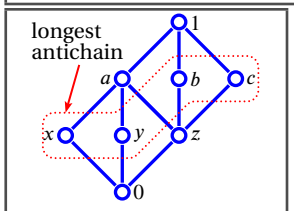

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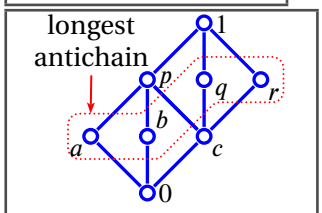

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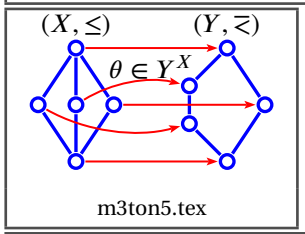

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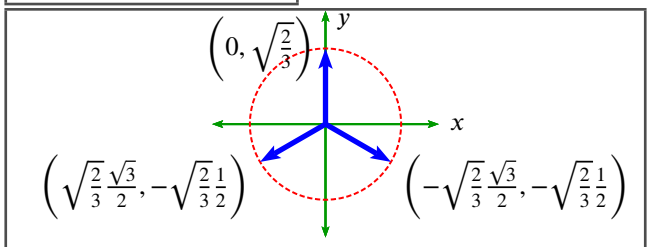

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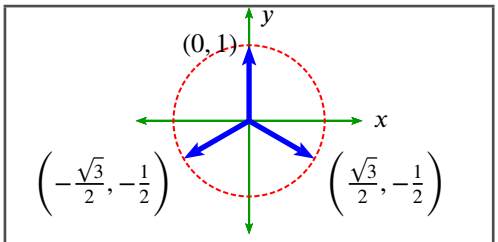

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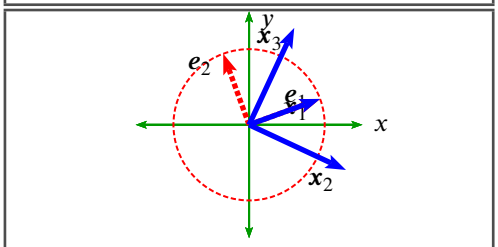

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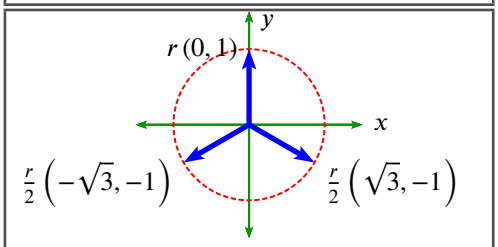

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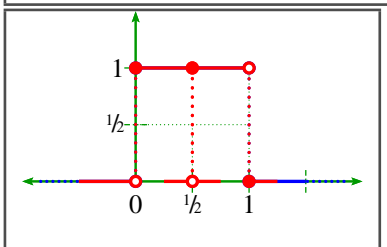

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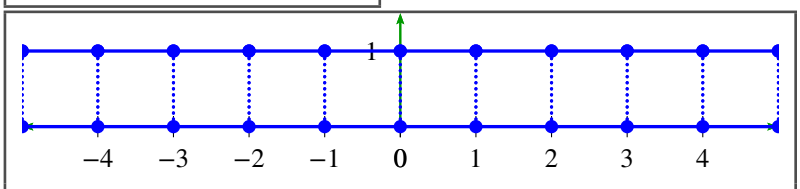

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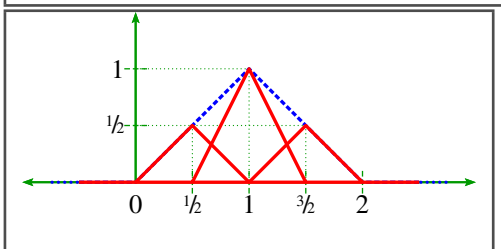

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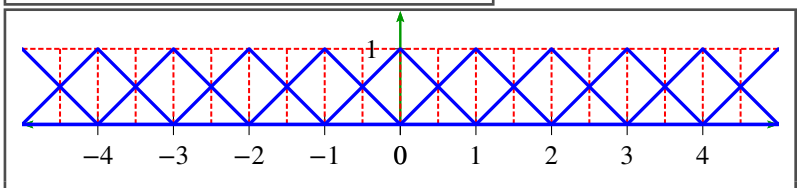

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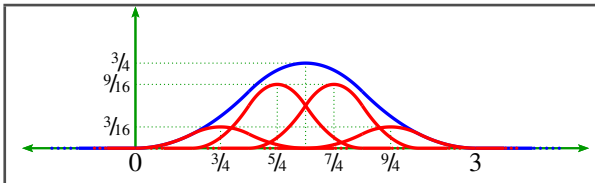

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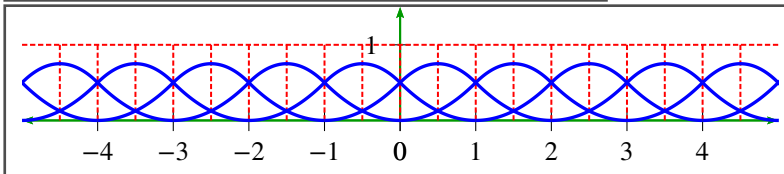

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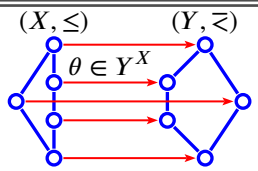

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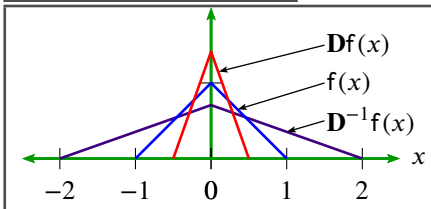

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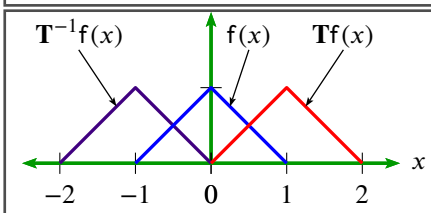

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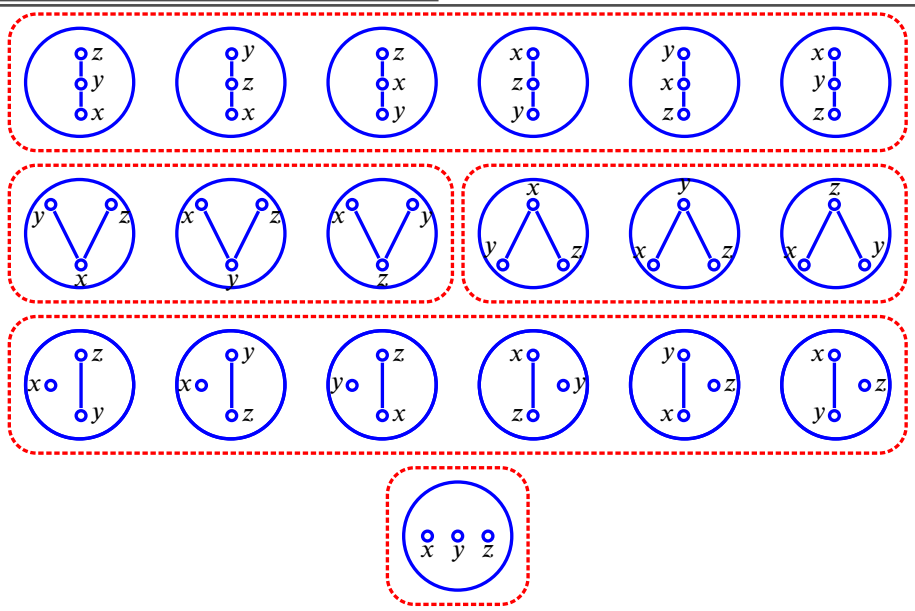

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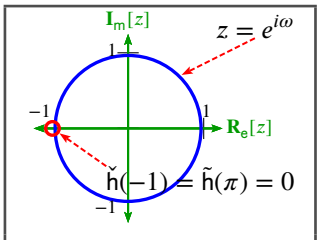

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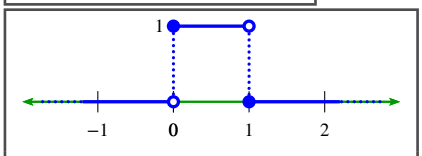

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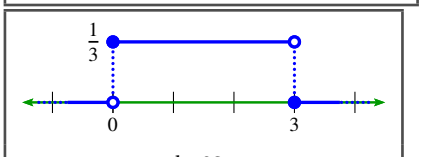

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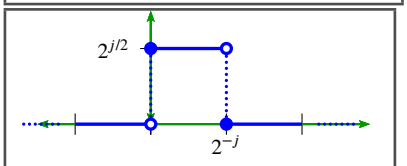

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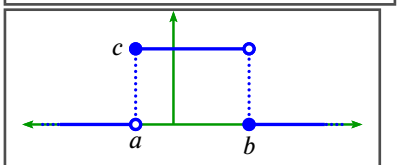

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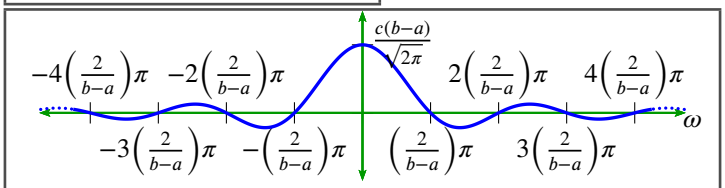

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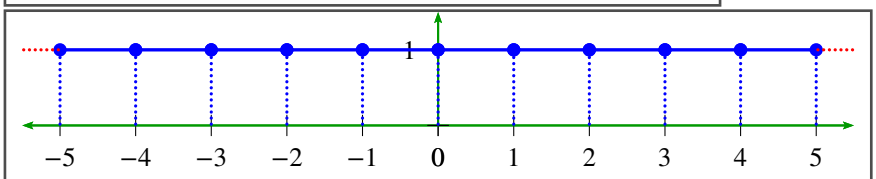

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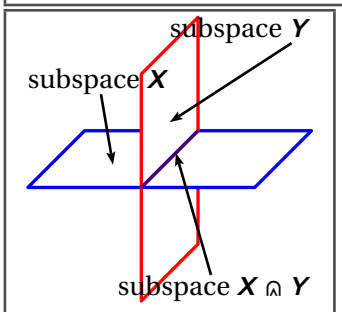

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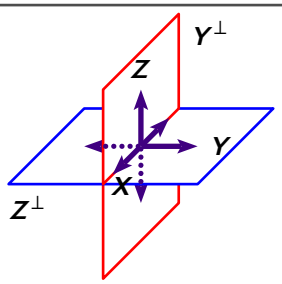

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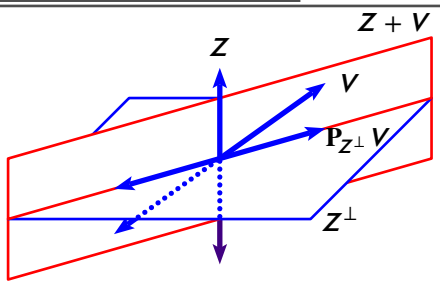

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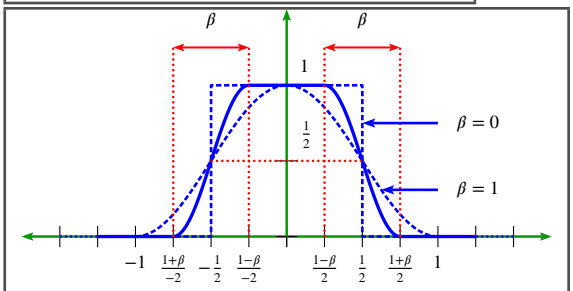

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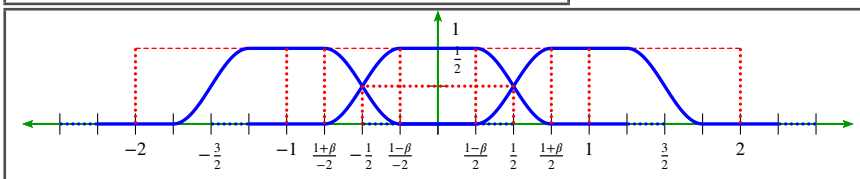

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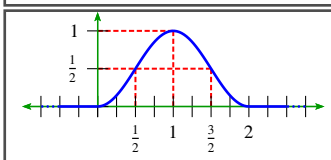

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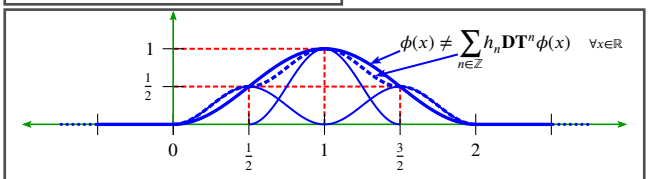

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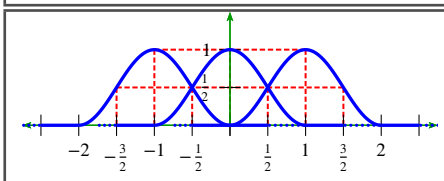

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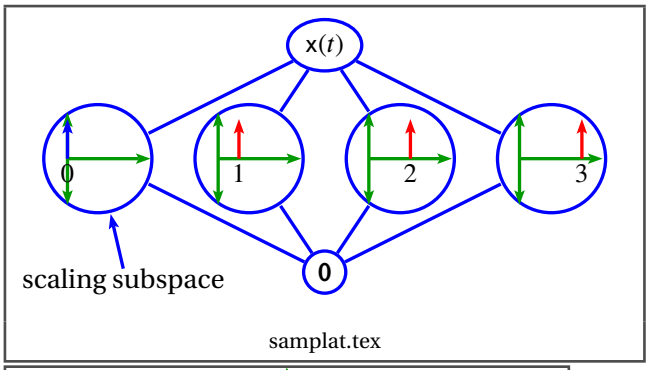

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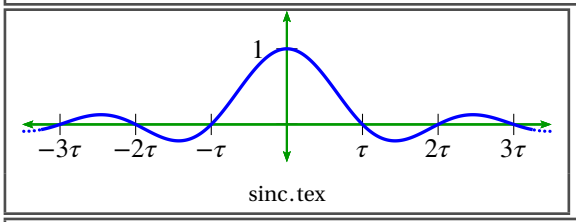

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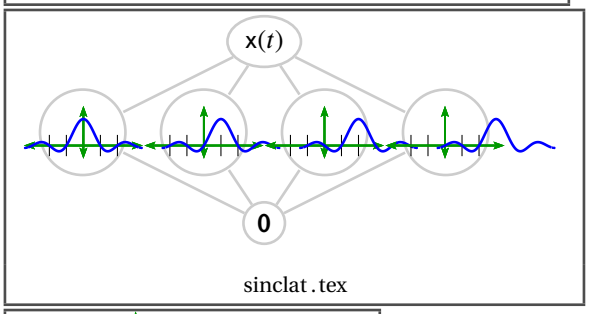

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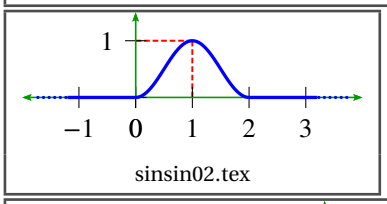

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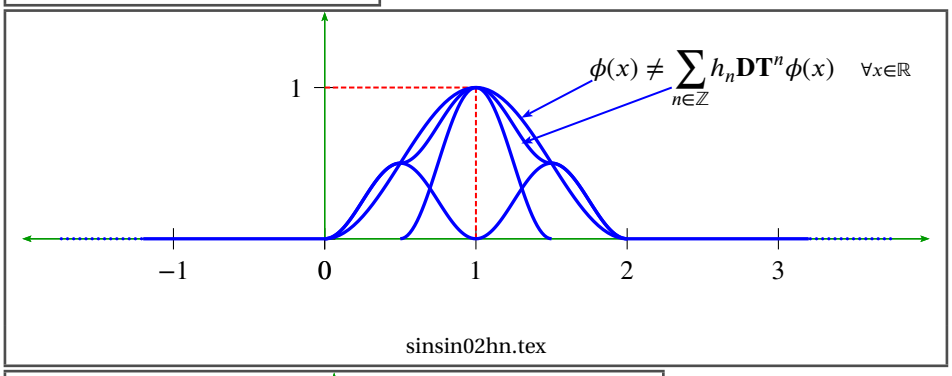

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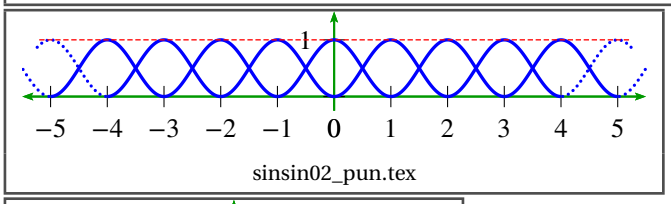

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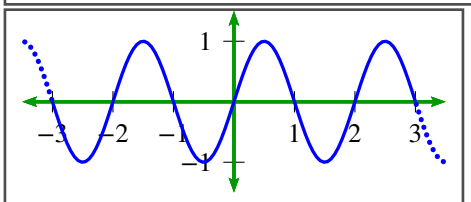

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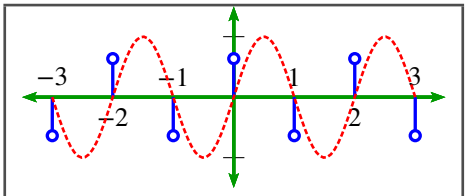

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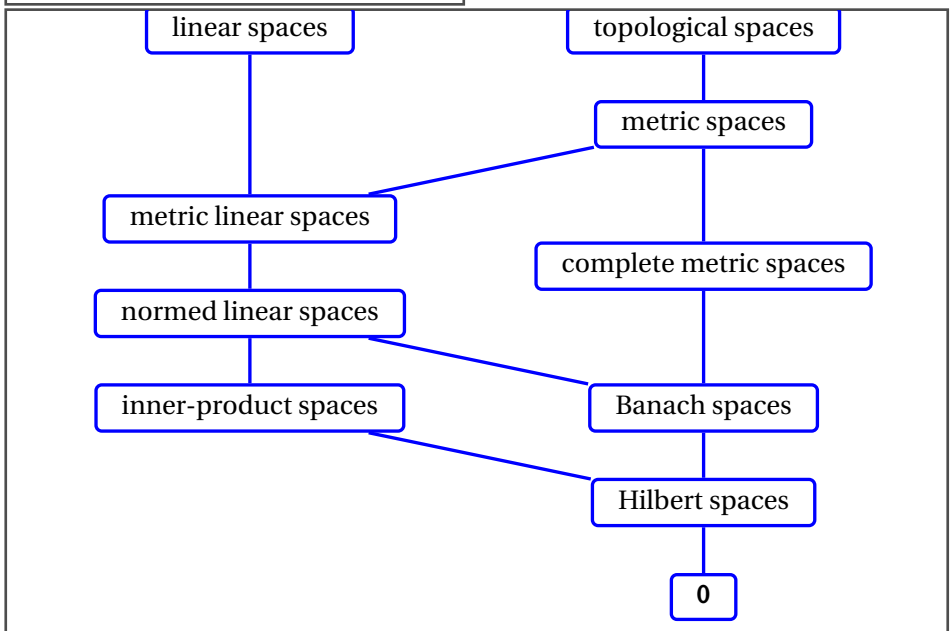

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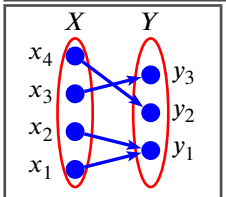

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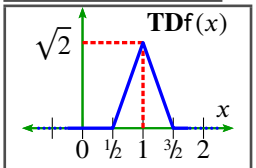

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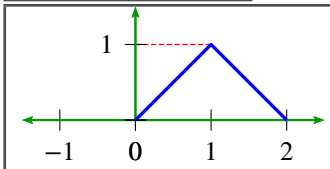

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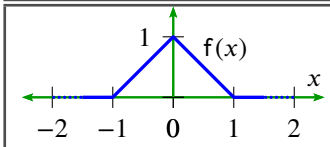

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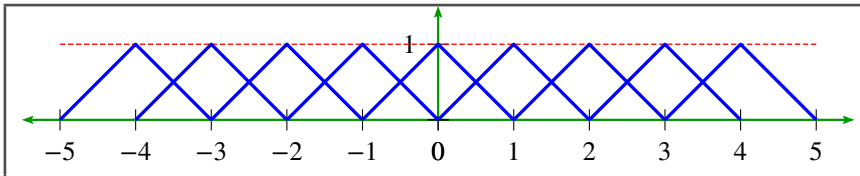

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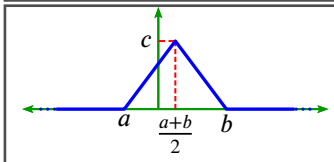

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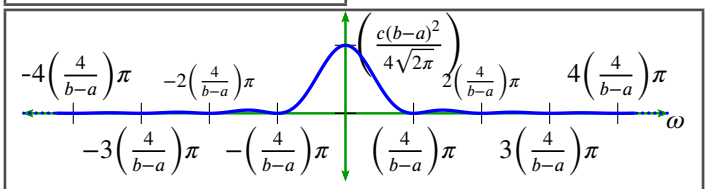

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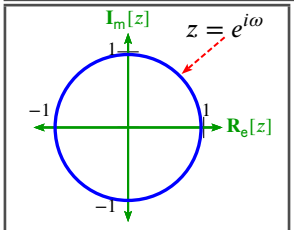

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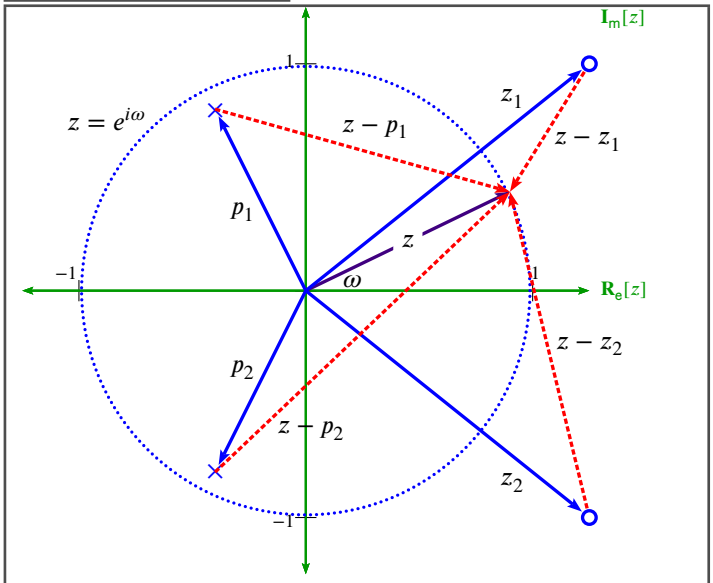

vecres.tex

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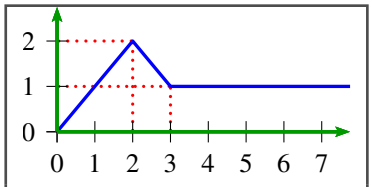
1.2 Metrics: common/math/graphics/metric



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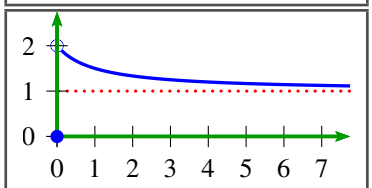

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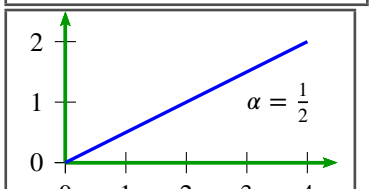

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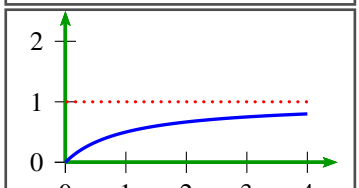

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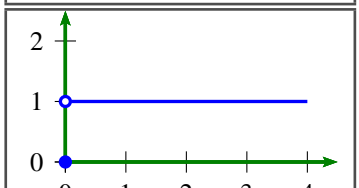

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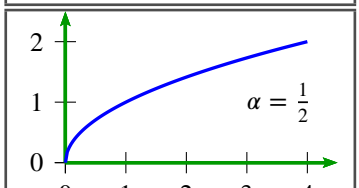

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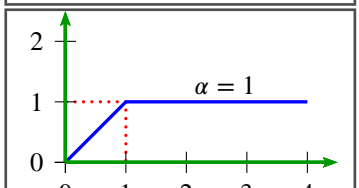

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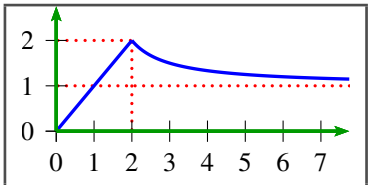

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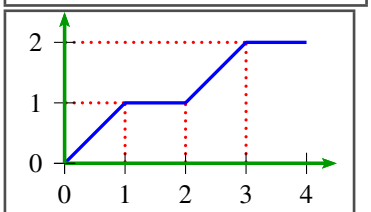

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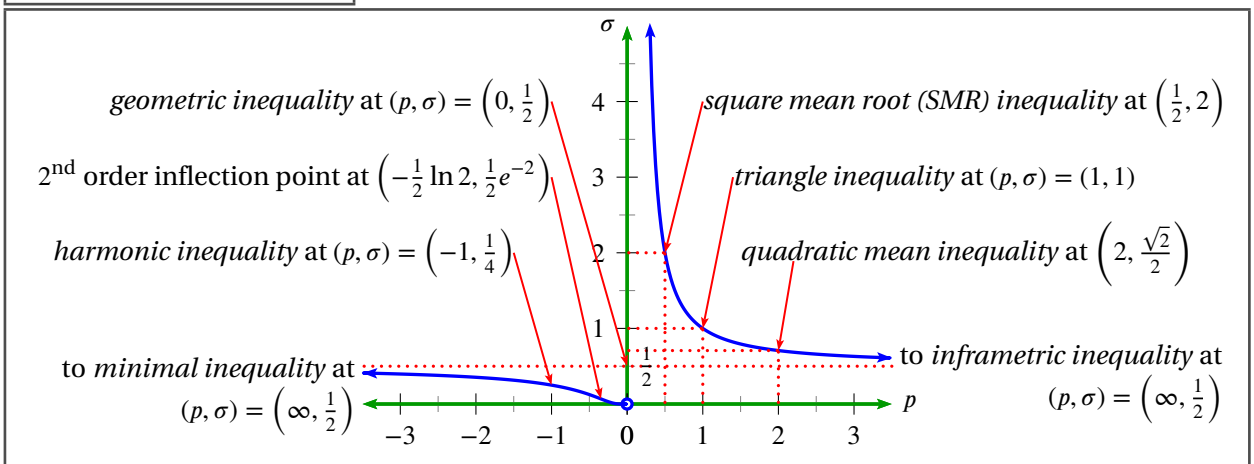

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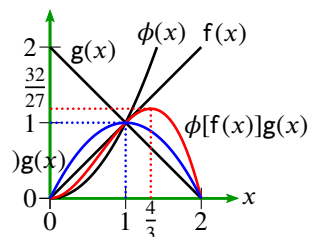
1.3 Argmin: common/math/graphics/argmin



argmin_xx−2x2.tex

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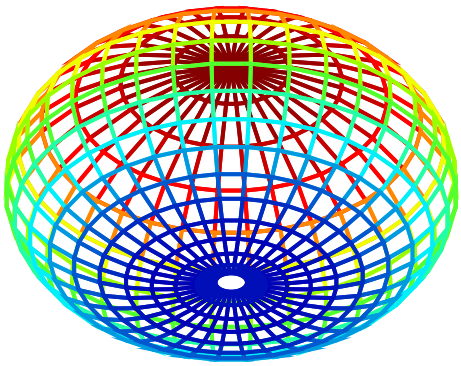
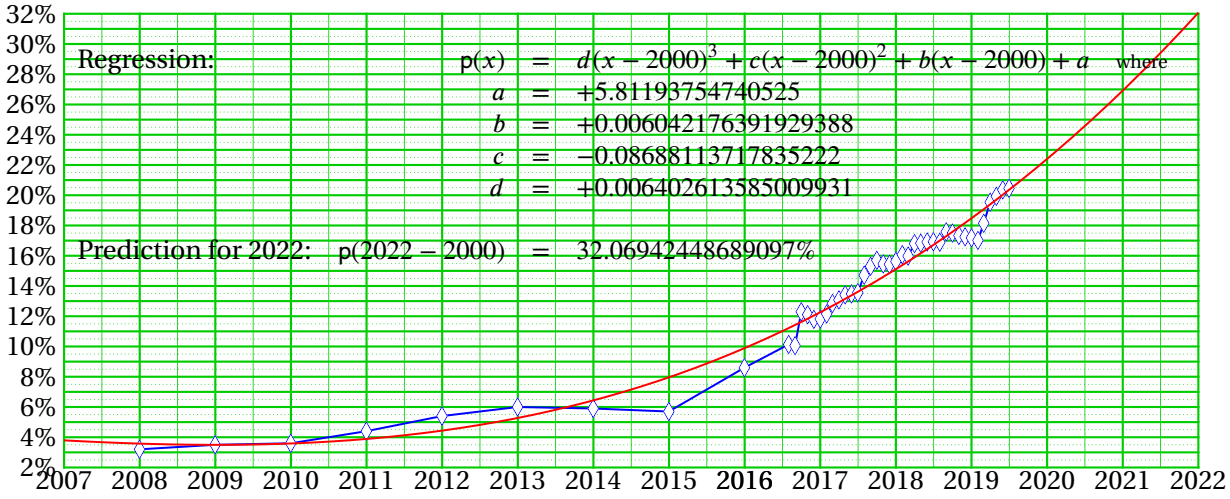
1.4 Balls: common/math/graphics/balls



rdie_3d_larcball.tex

1.5 Data: common/math/graphics/data



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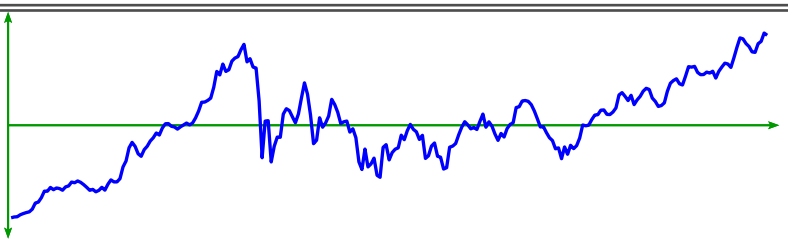

dji30_20171006−20181004.tex

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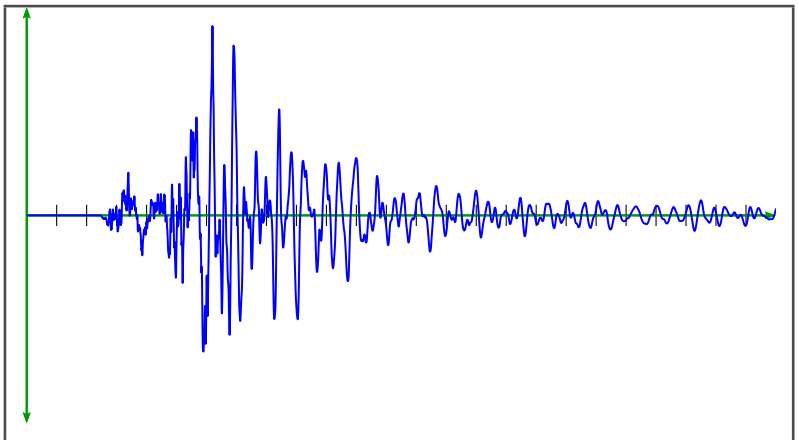

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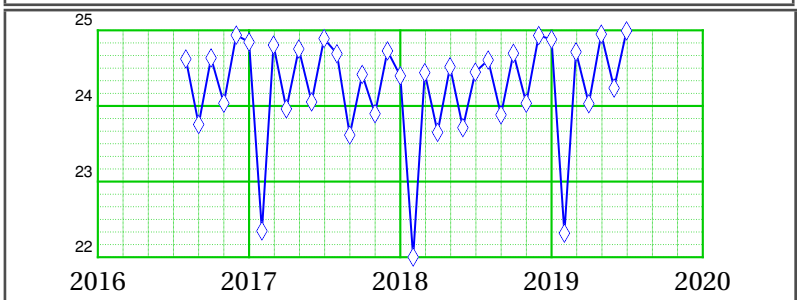

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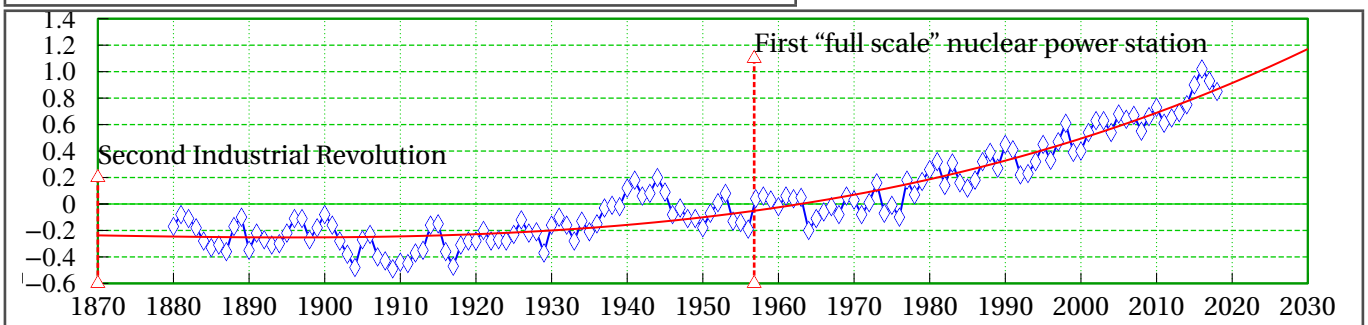

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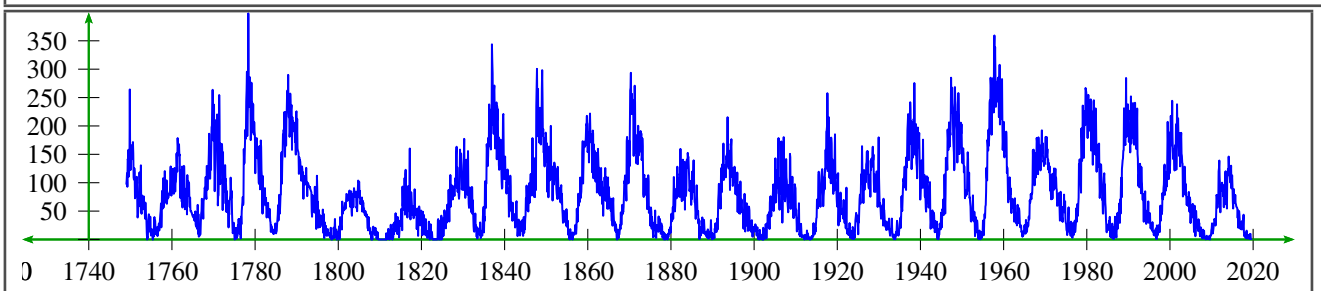

sunspots.tex

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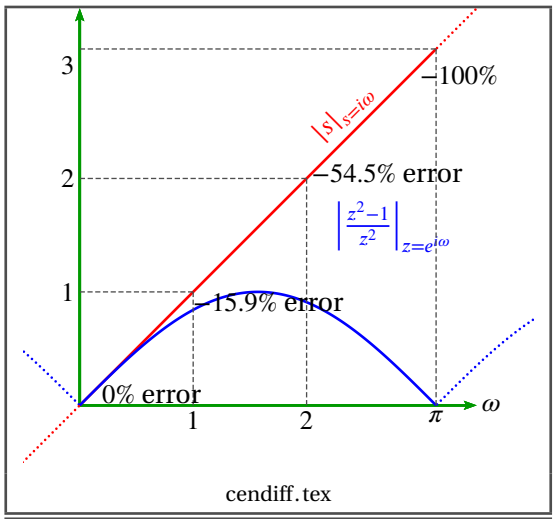
1.6 DSP: common/math/graphics/dsp



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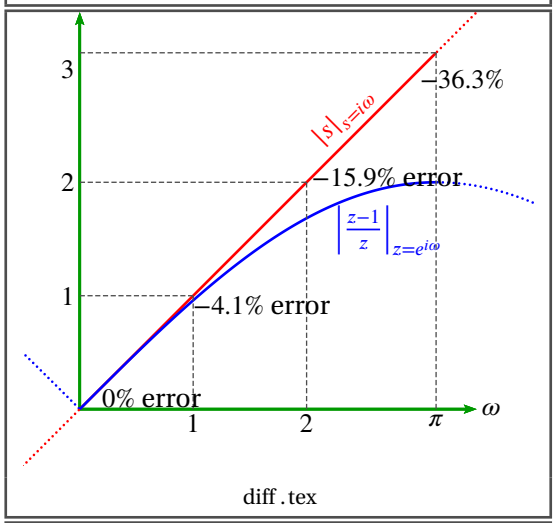

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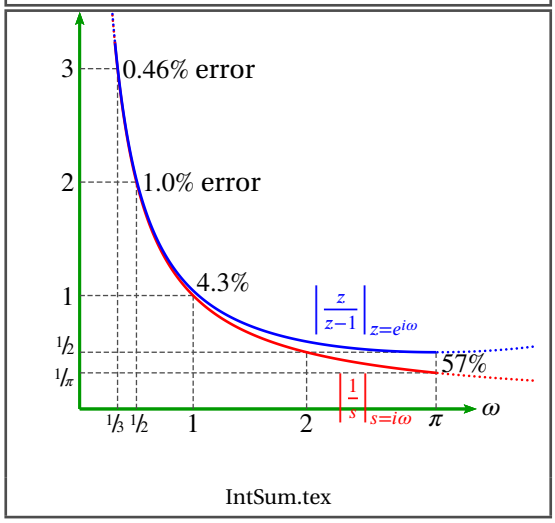

IntSum.tex

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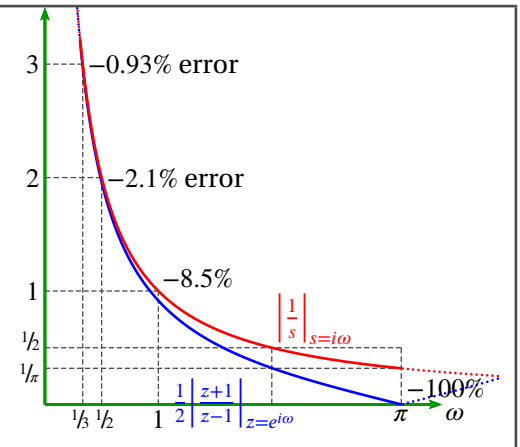

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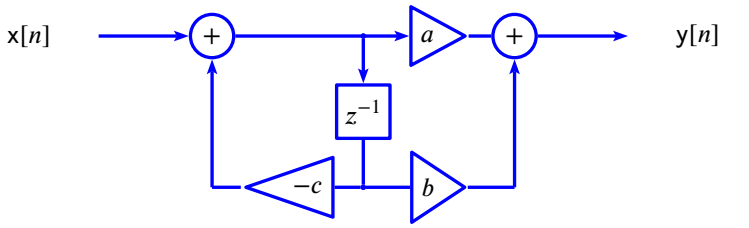

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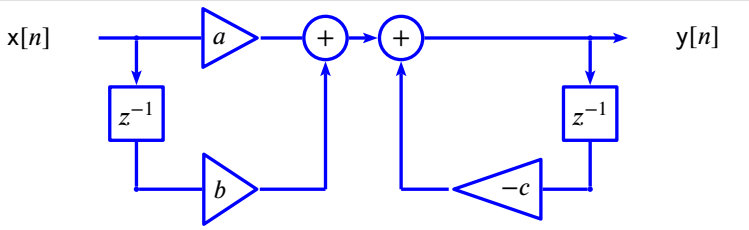

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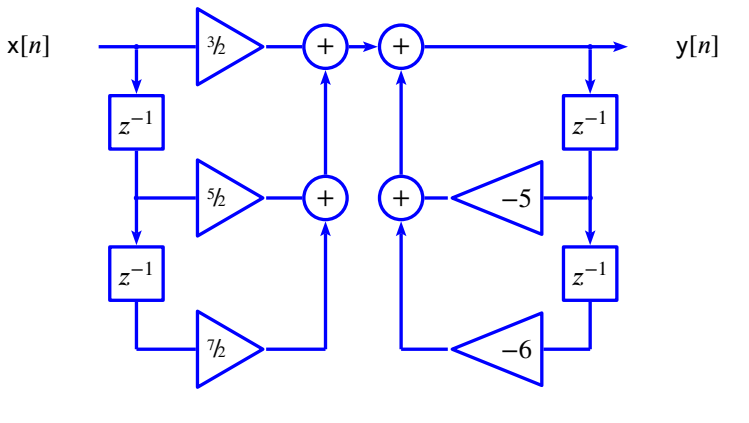

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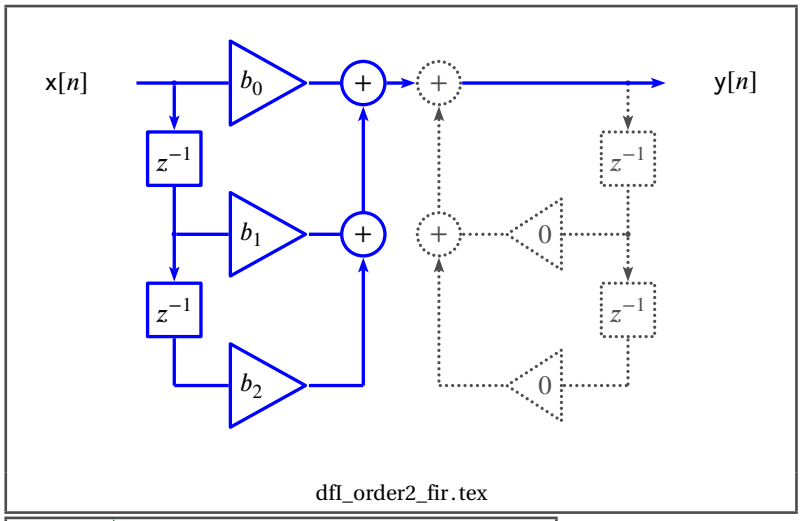

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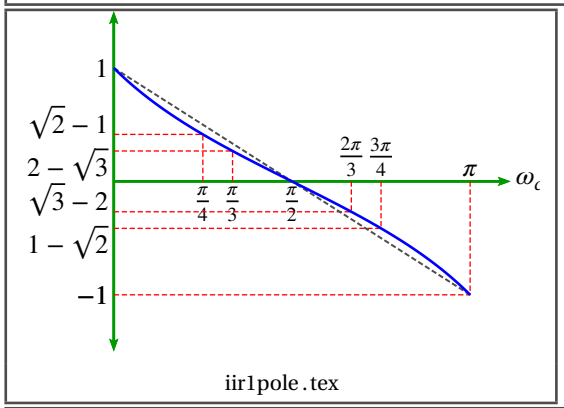

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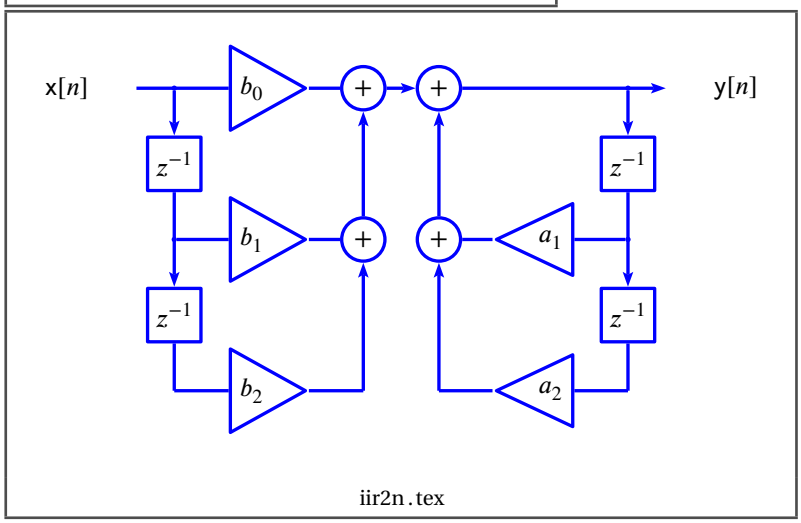

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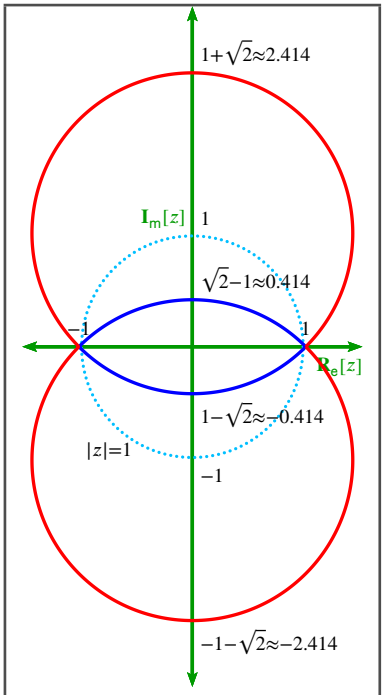

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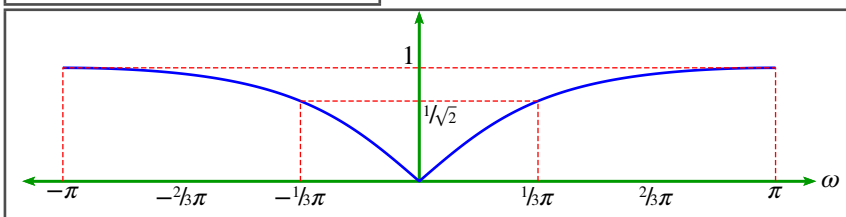

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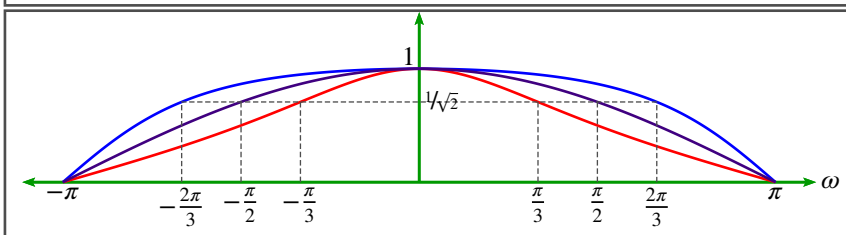

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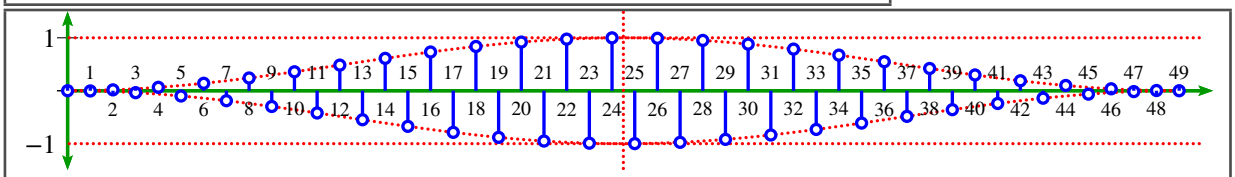

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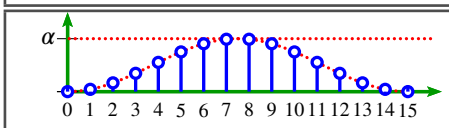

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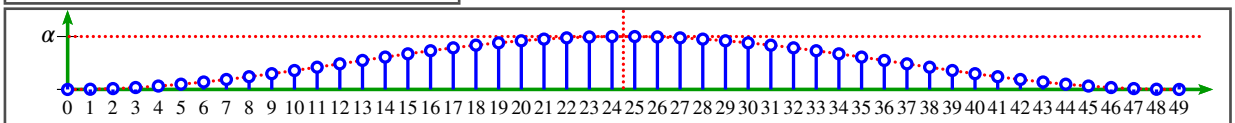

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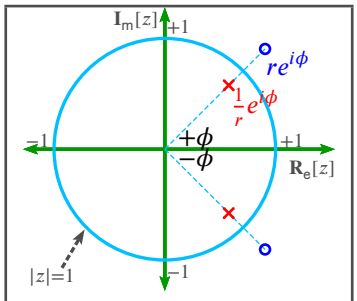

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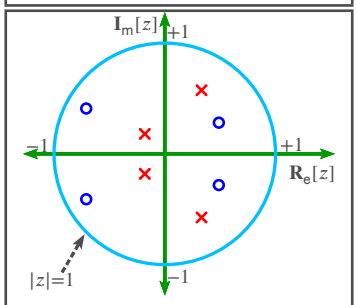

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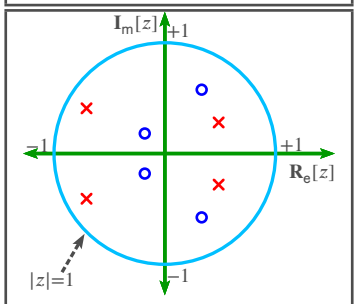

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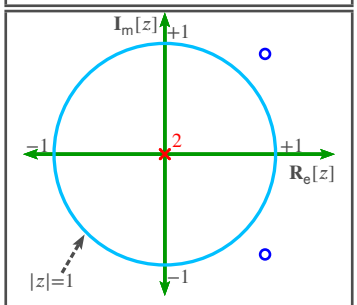

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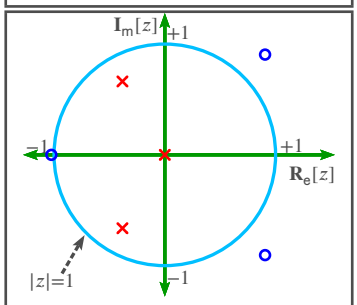

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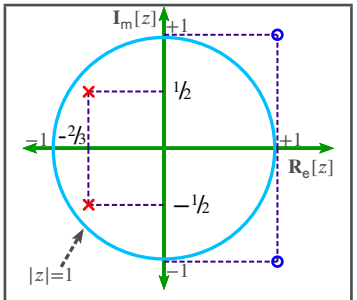

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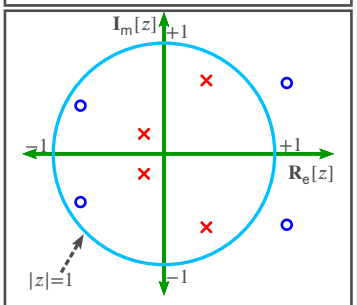

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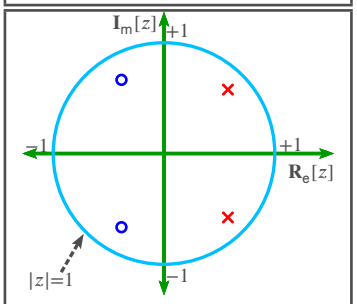

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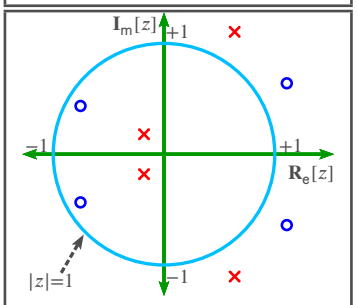

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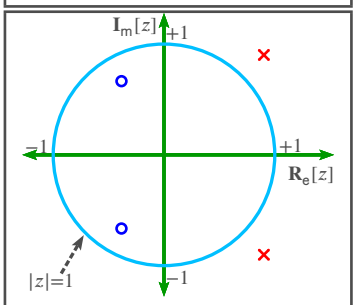

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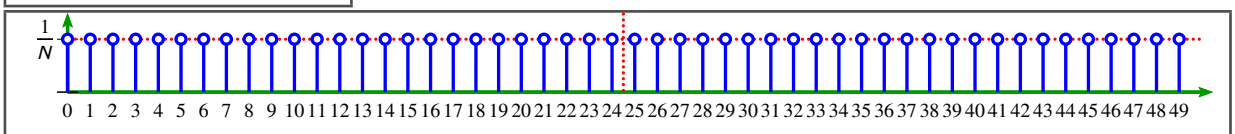

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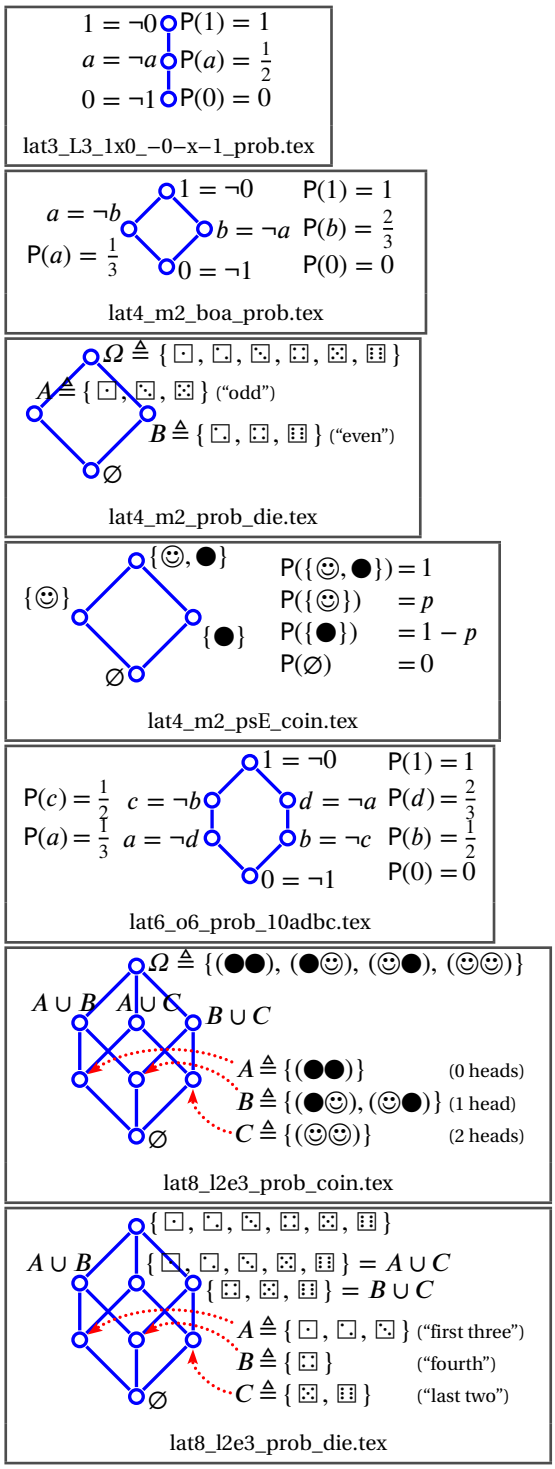
1.7 Probability: common/math/graphics/prob



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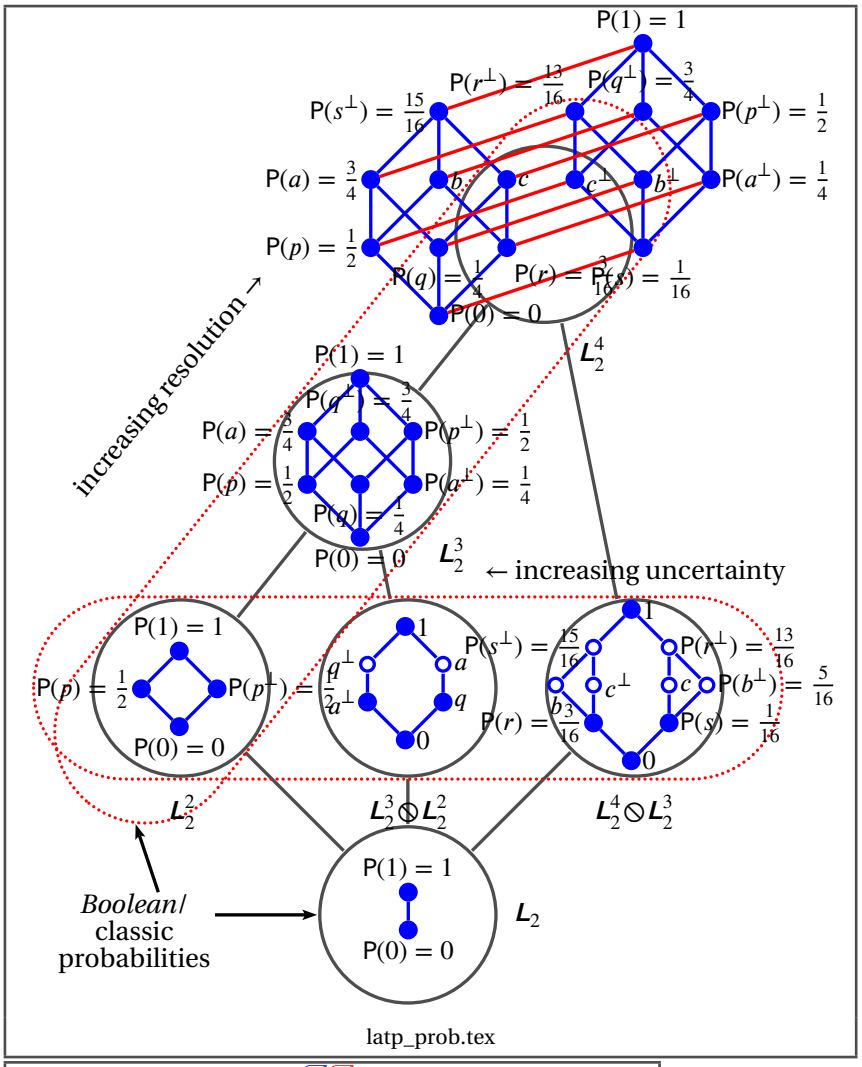

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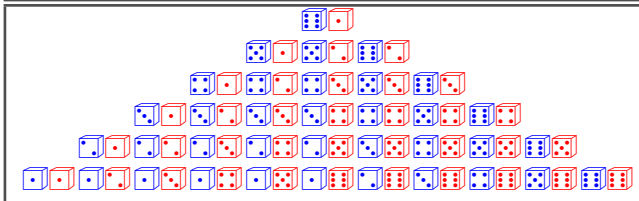

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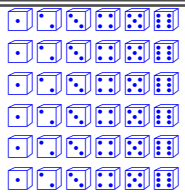

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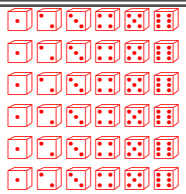

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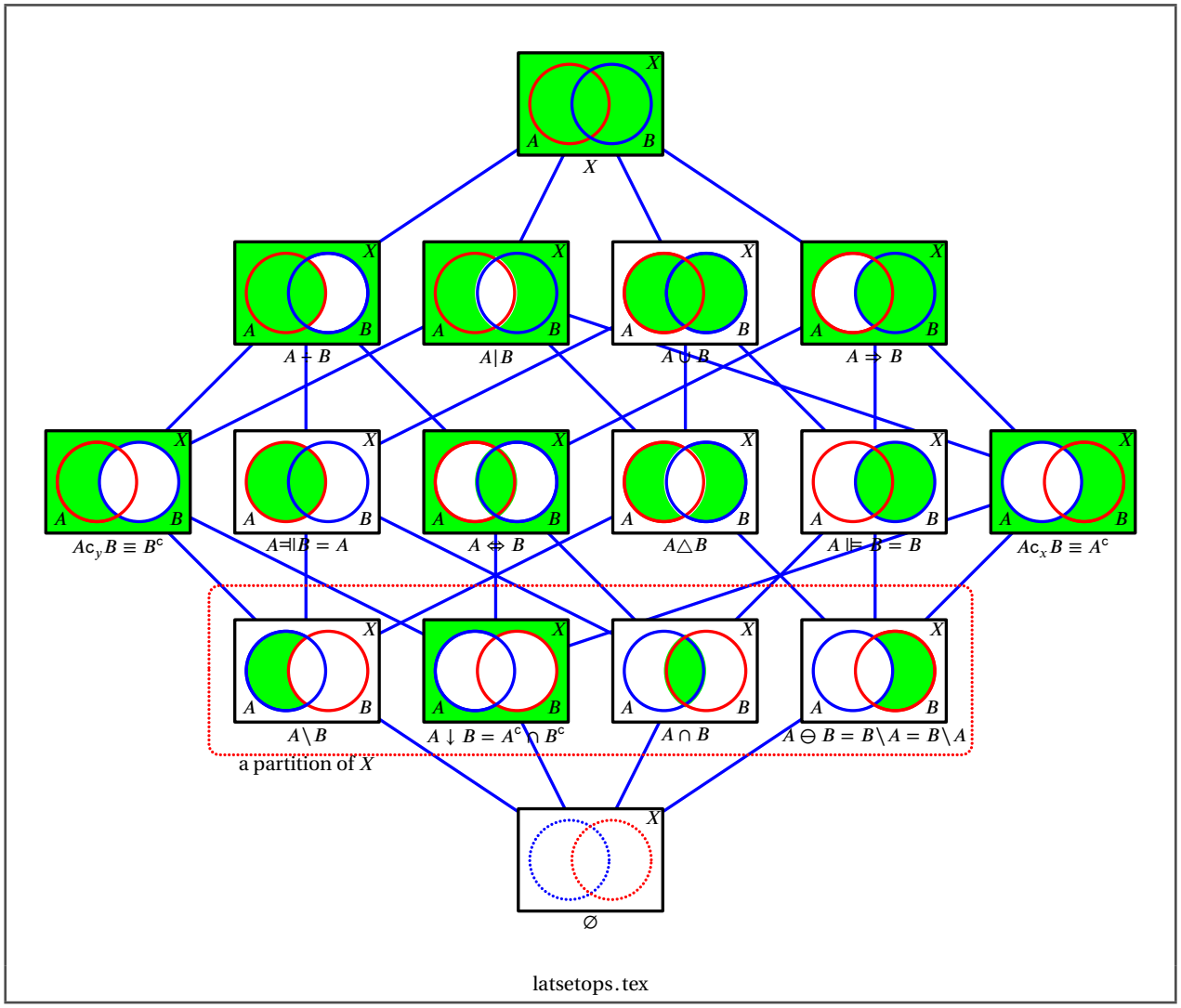
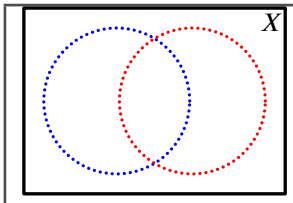
CHAPTER 2

SETS

2.1 Set Operations: common/math/graphics/setops





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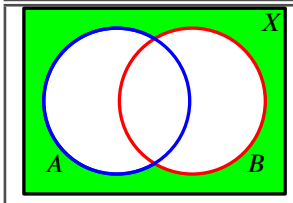

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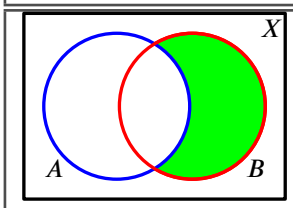

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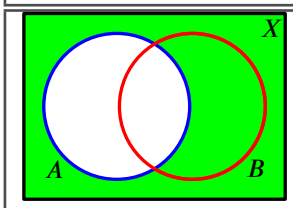

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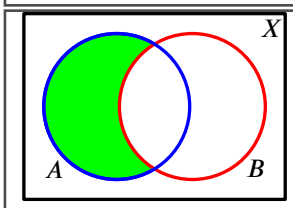

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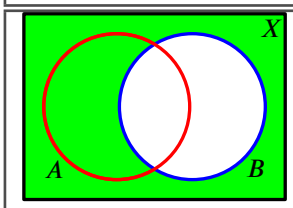

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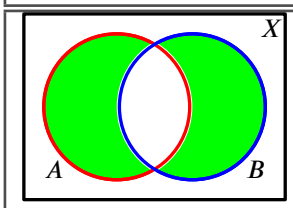

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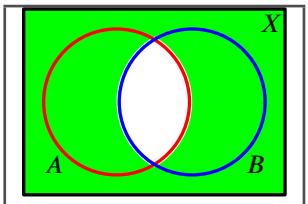

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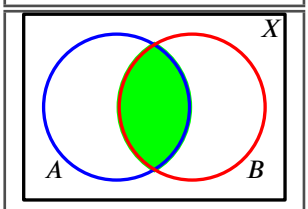

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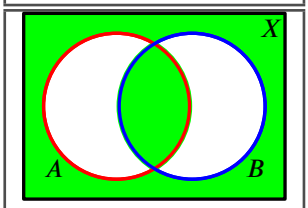

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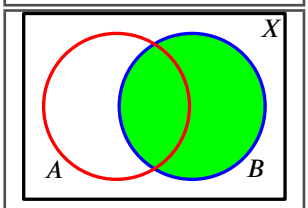

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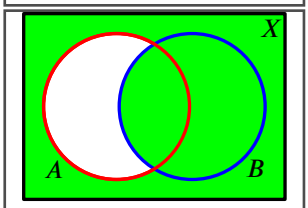

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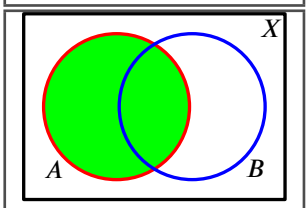

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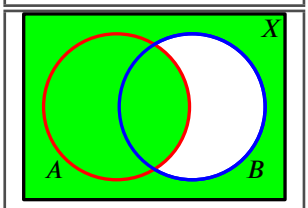

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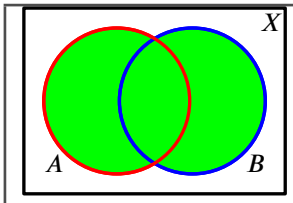

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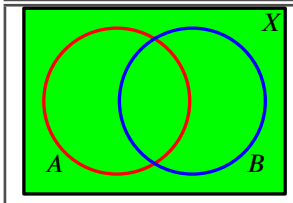

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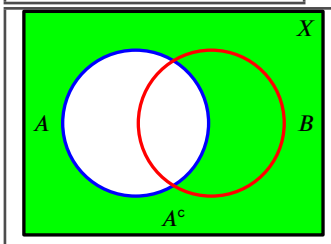

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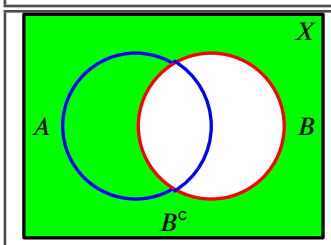

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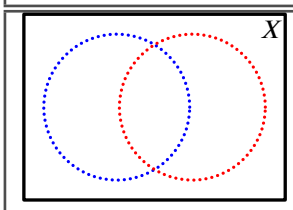

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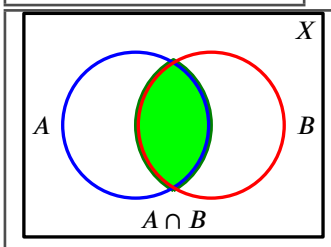

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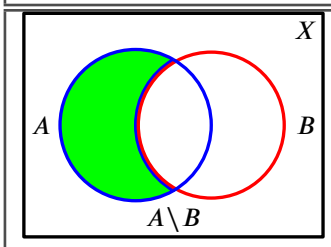

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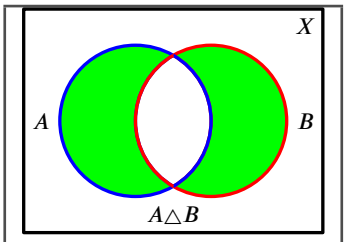

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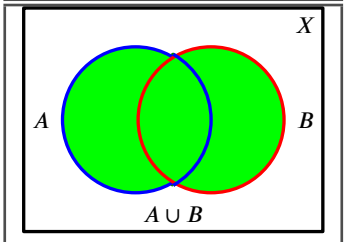

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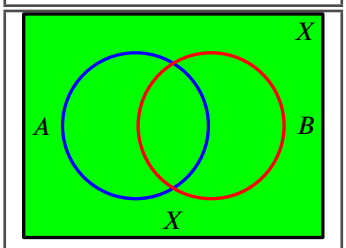

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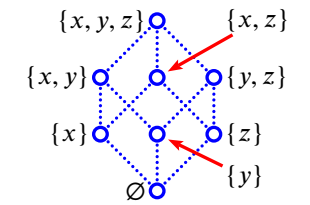

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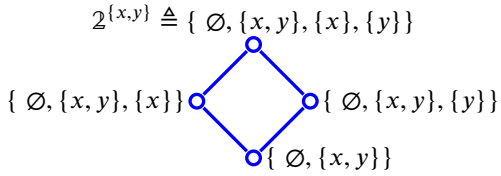

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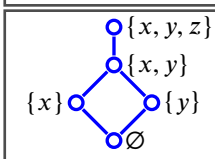

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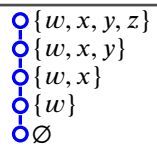

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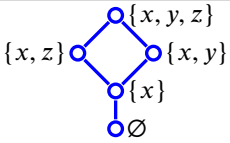

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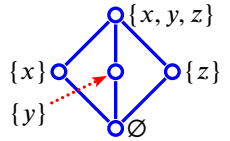

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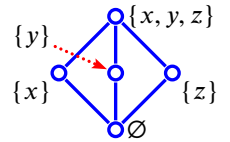

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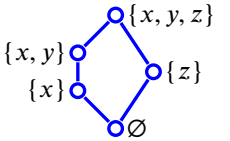

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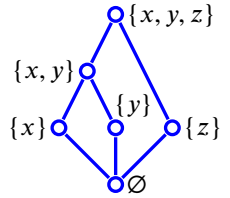

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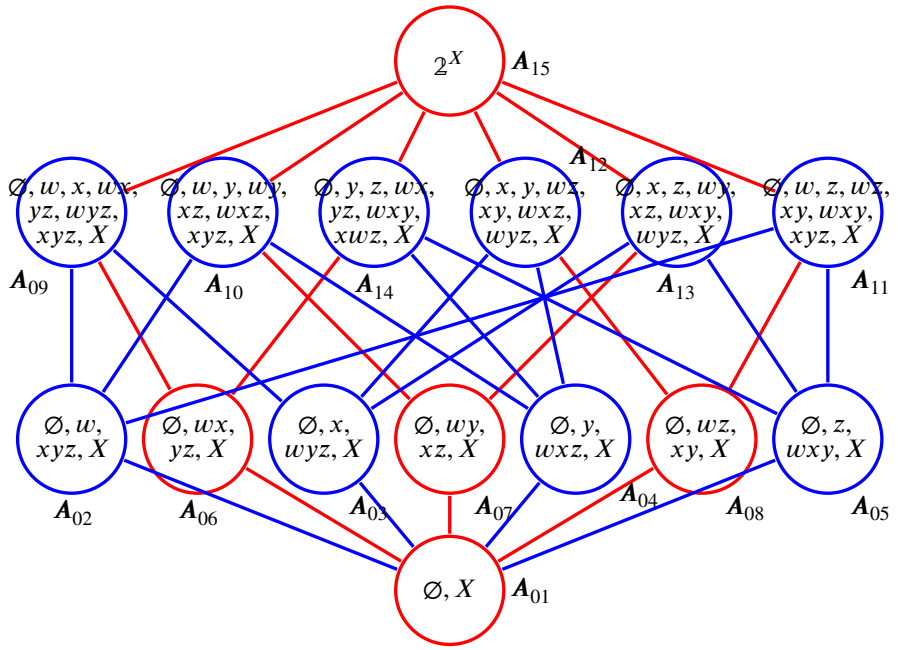

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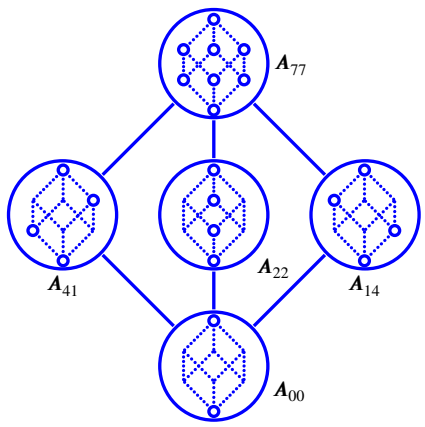

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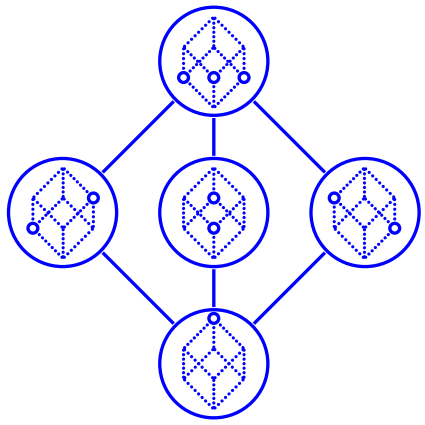

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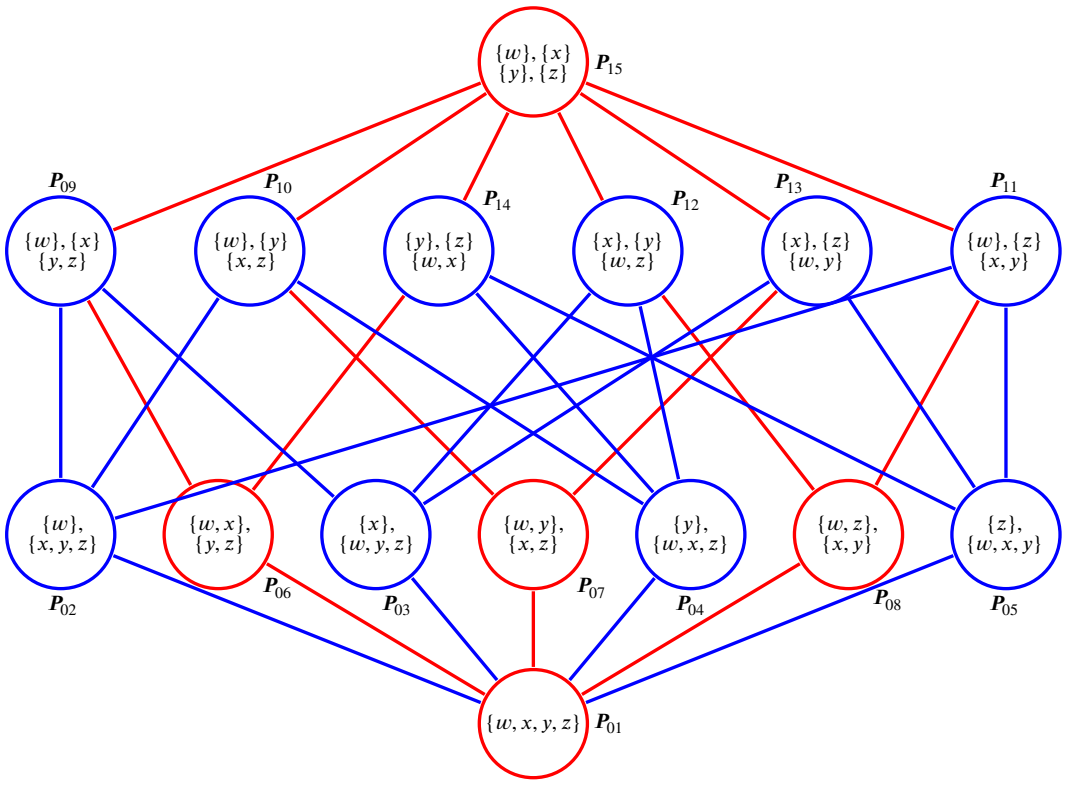

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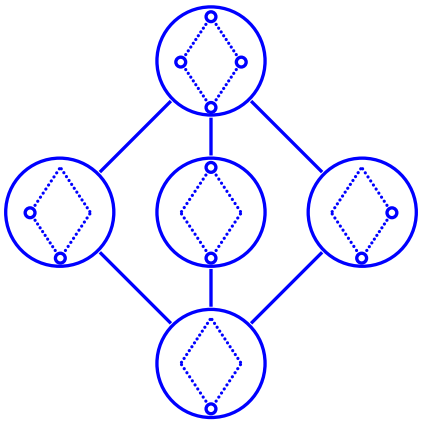

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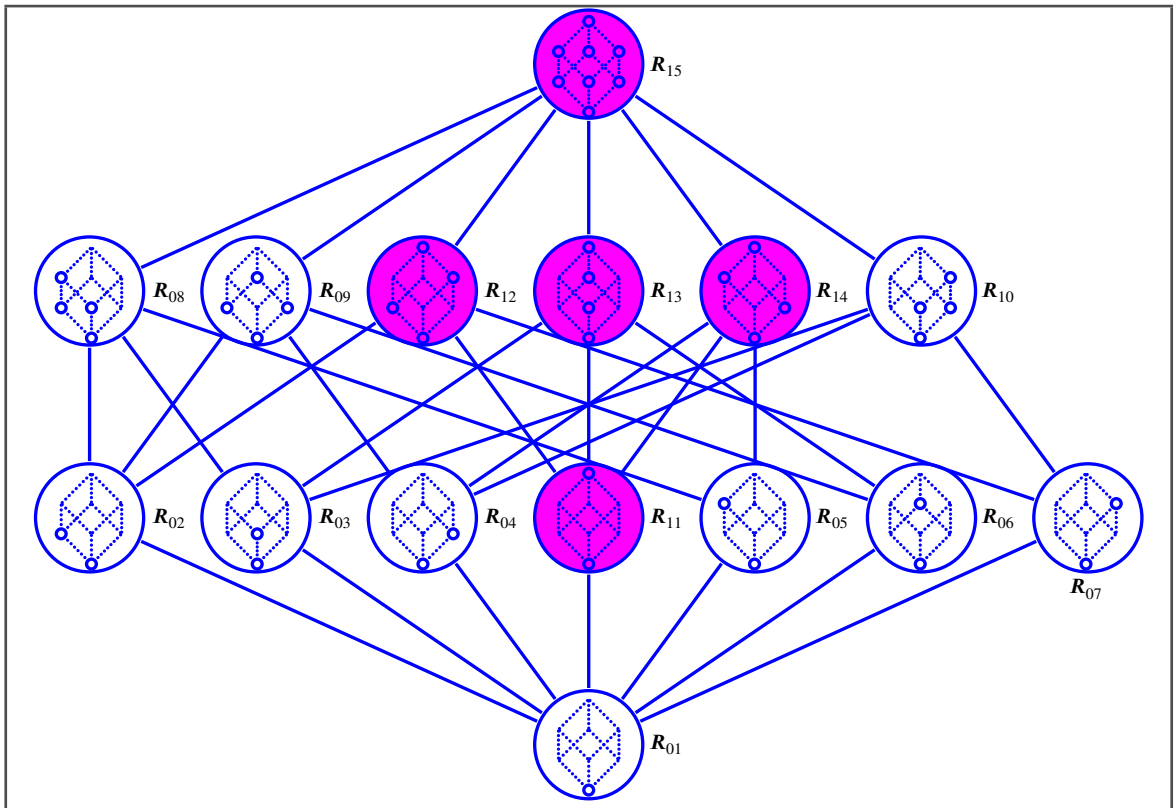

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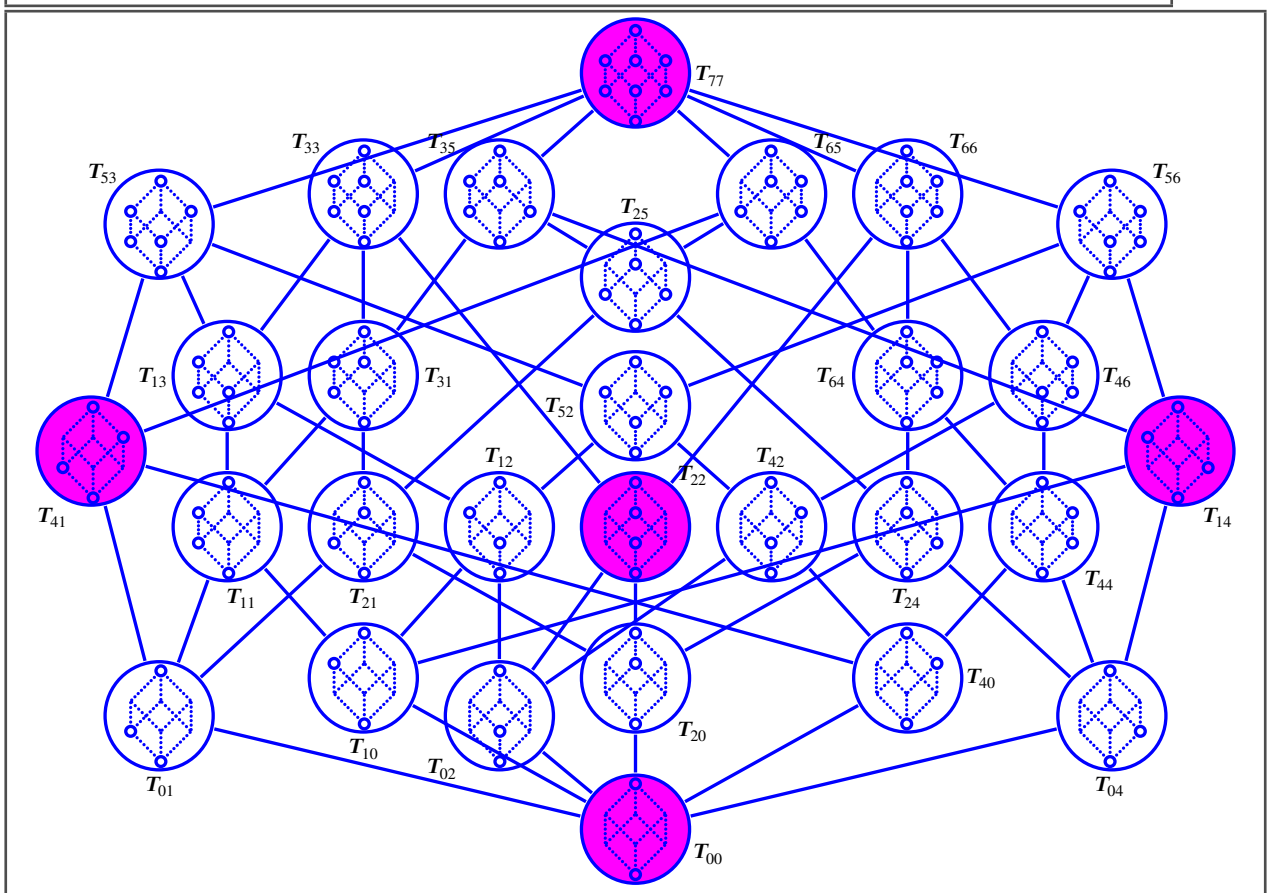

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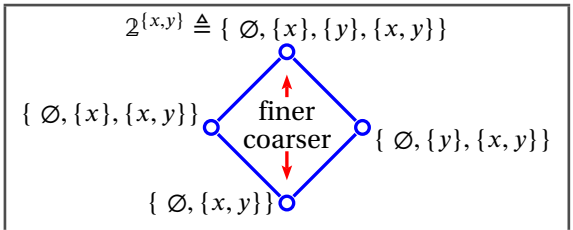

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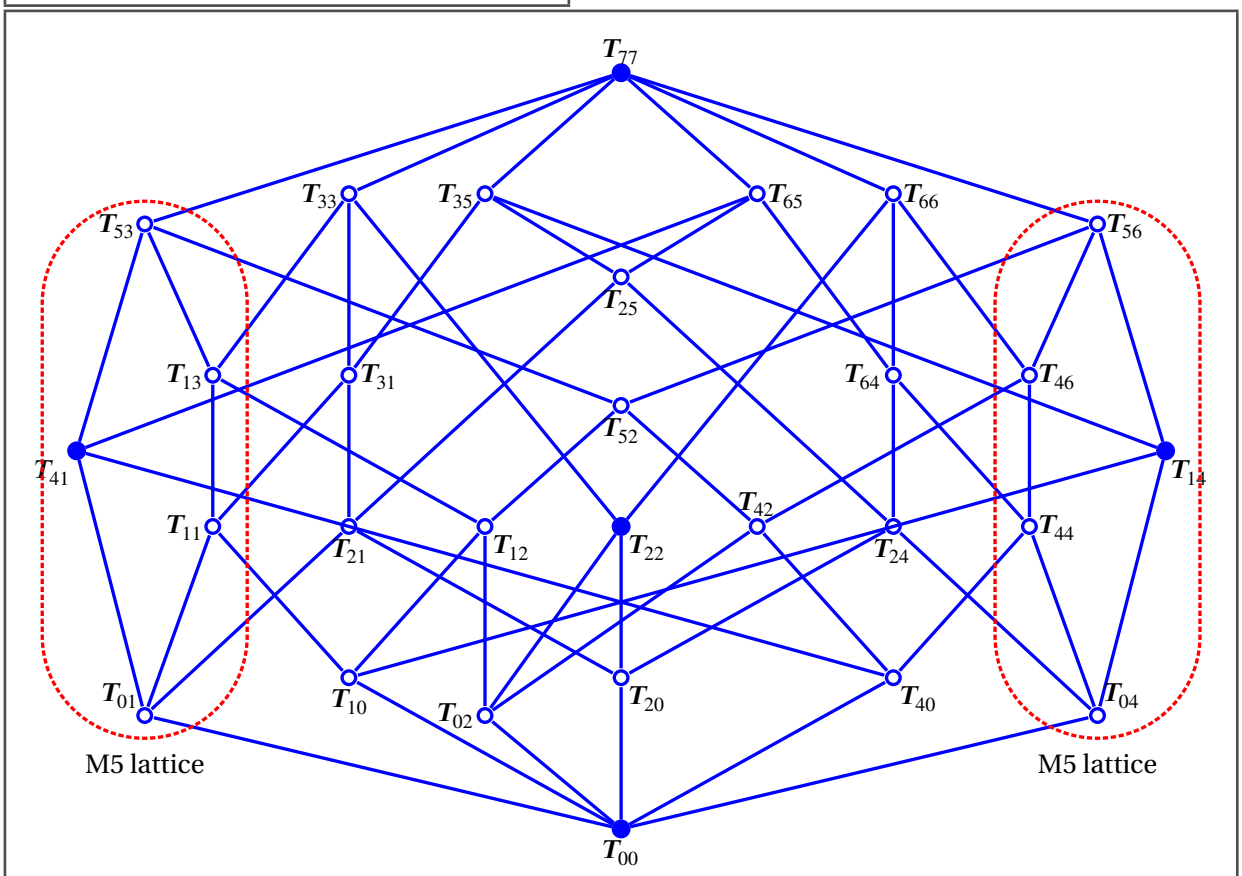

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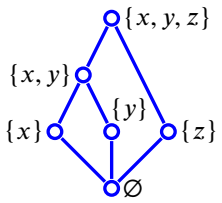

latwavxyz.tex

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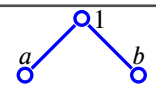
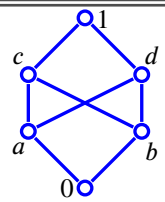
CHAPTER 3

ORDER THEORY

3.1 Ordered Sets: common/math/graphics/oset

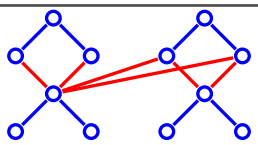


oset3_wedge_ab1.tex

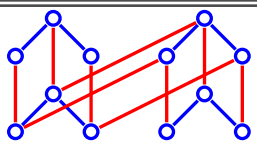


oset6_o6x_abcd01.tex

3.2 Ordered Sets Unlabeled: common/math/graphics/osetu



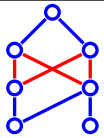
oset12_wedge_otimes_Nref.tex



oset12_wedge_times_Nref.tex

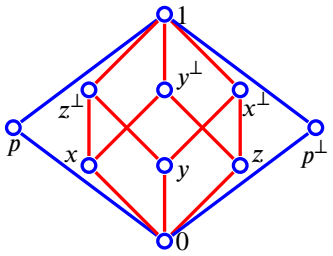
oset3_wedge.tex

oset4_Nref.tex



oset7_wedge_oplus_Nref.tex

3.3 Lattices: common/math/graphics/lat



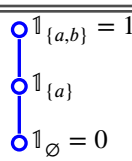
lat10_hsum_pxyz.tex

lat1_01.tex

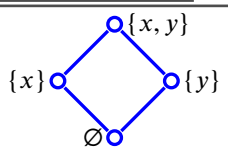
lat2_l2_01.tex

lat2_l2_setx.tex

lat3_L3_psetx.tex



lat3_L3_setind.tex



lat4_l2e2_setxy.tex

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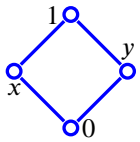
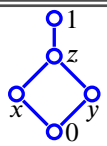
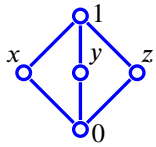
lat4_l4_1234.tex



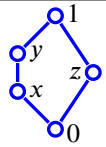
lat4_m2_1xy0.tex



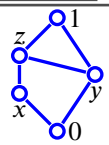
lat5_l2onm2_1xyz0.tex



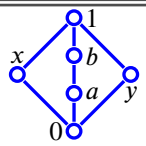
lat5_m3_xyz.tex



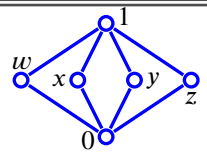
lat5_n5_xyz.tex



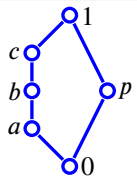
lat5_pentbslash_1xyz0.tex



lat6_l4inm2_xyab01.tex



lat6_m4_wxyz.tex



lat6_n6_0abcp1.tex

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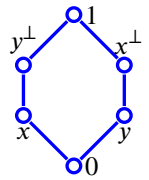
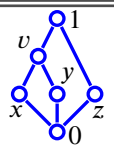
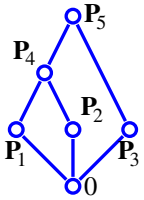


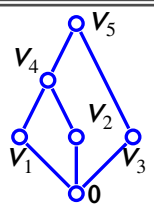
lat6_o6_xy.tex



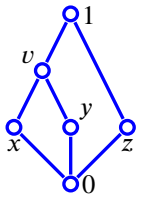
lat6_p3_xyzv01.tex



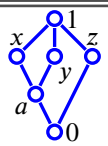
lat6_plat_P12345.tex



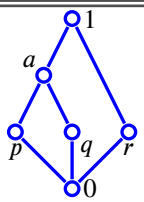
lat6_plat_V12345.tex



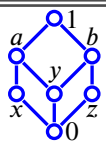
lat6_plat_xyzv10.tex



lat6_primo_dual_xyza01.tex



lat6_primo_pqra01.tex



lat7_veeino6_xyzab01.tex

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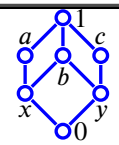
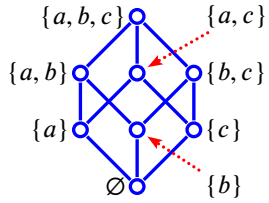
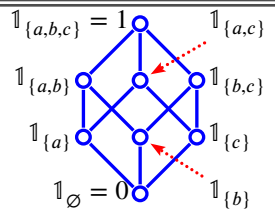


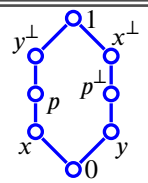
lat7_wedgeino6_xyabc01.tex



lat8_l2e3_psetx.tex

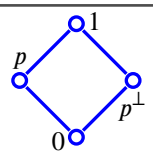


lat8_l2e3_setind.tex

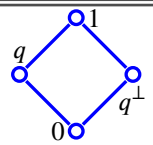


lat8_o8_xyp.tex

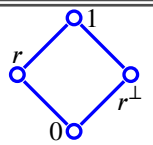
3.4 Orthocomplemented Lattices: common/math/graphics/latoc



lat4_m2_latoc_p.tex



lat4_m2_latoc_q.tex



lat4_m2_latoc_r.tex

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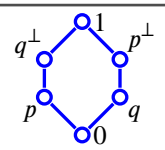
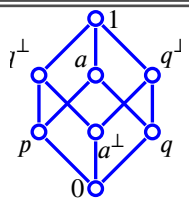
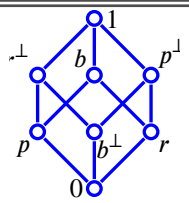


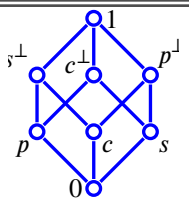
lat6_o6_latoc_pq.tex



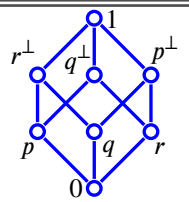
lat8_l2e3_latoc_paq.tex



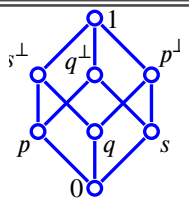
lat8_l2e3_latoc_pbr.tex



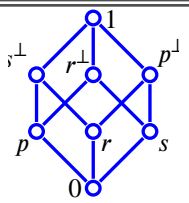
lat8_l2e3_latoc_pcs.tex



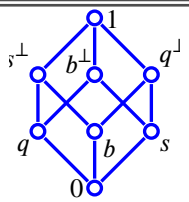
lat8_l2e3_latoc_pqr.tex



lat8_l2e3_latoc_pqs.tex



lat8_l2e3_latoc_prs.tex



lat8_l2e3_latoc_qbs.tex

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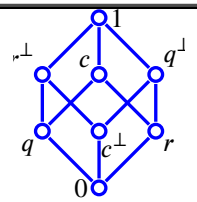
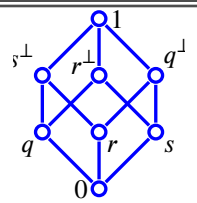
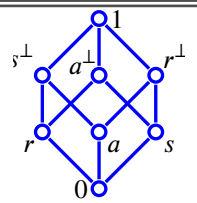


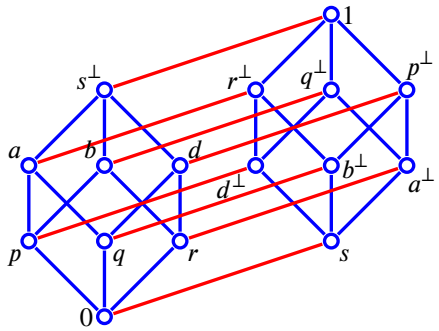
lat8_l2e3_latoc_qcr.tex



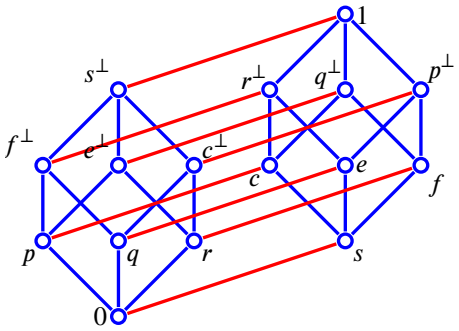
lat8_l2e3_latoc_qrs.tex



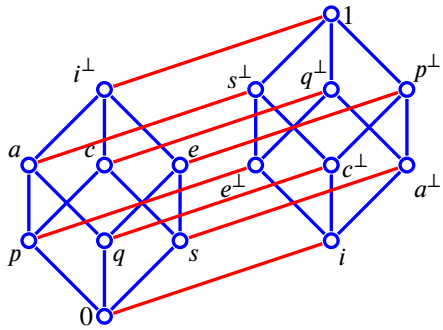
lat8_l2e3_latoc_ras.tex



lat16_l2e4_latoc_pqrs.tex



lat16_l2e4_latoc_pqrs_fec.tex



lat16_l2e4_latoc_pqsi.tex

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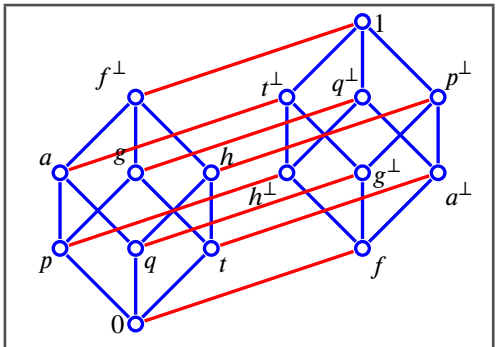
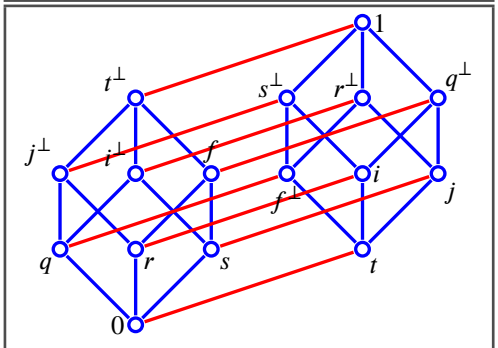
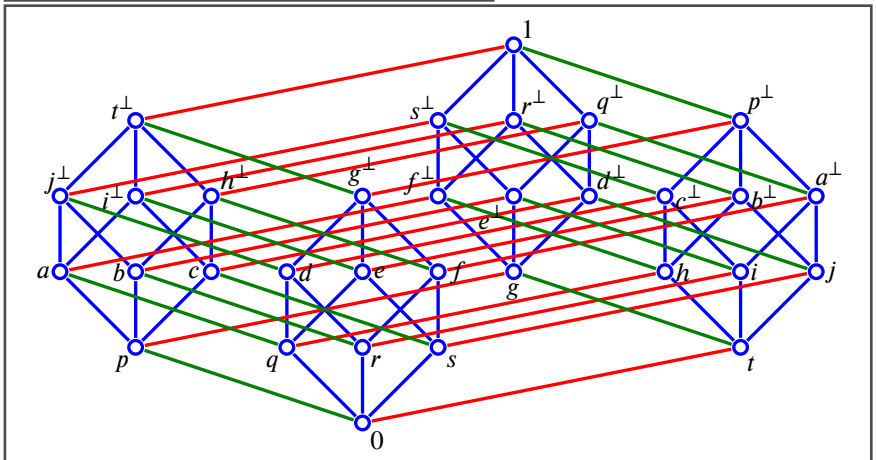


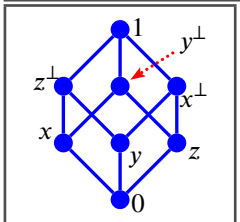
lat16_l2e4_latoc_pqtf.tex



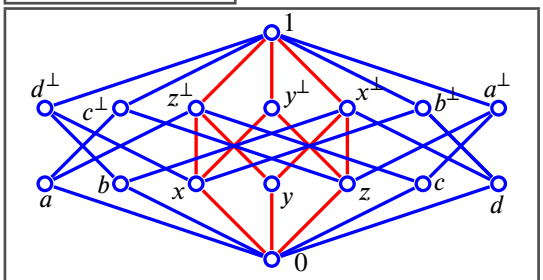
lat16_l2e4_latoc_qrst.tex



lat32_l2e5_latoc_pqrst.tex



latoc2xyz_center.tex



latocdil7_abxyzcd.tex

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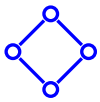
3.5 Unlabeled Lattices: common/math/graphics/latu

lat1.tex

lat2_l2.tex

lat3_l3.tex

lat4_l4.tex



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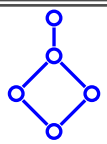

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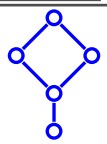

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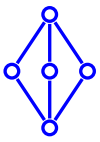

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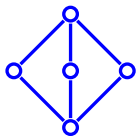

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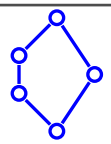
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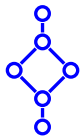
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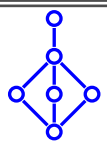
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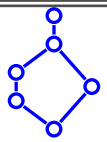
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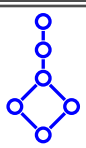
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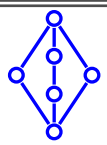
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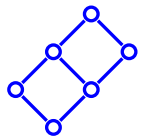
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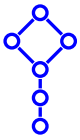
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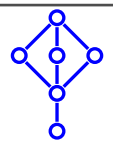

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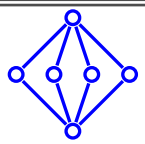

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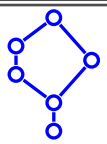

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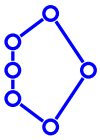

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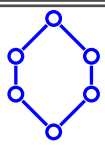

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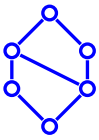

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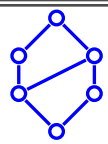

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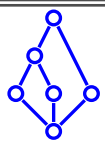

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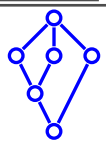

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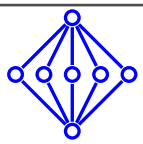
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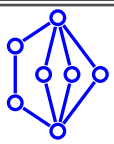
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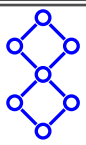
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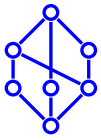
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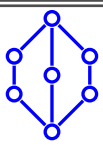
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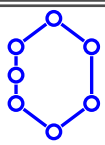
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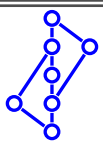
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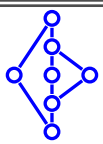
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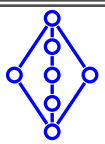
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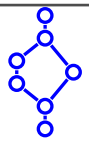

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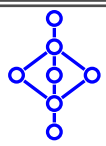

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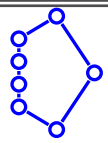

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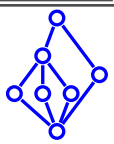

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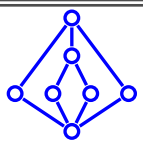

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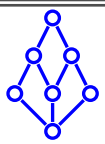

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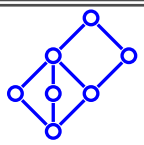

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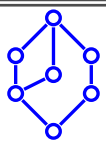

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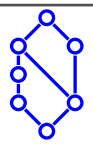
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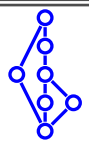
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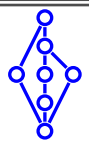
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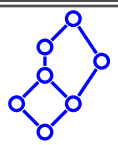
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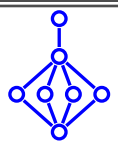
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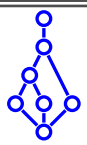
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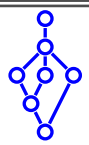
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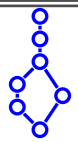
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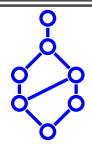
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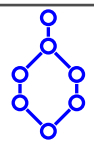

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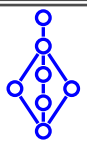

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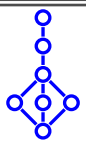

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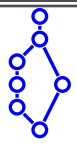

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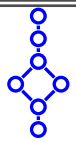

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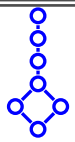

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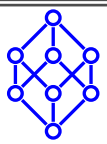

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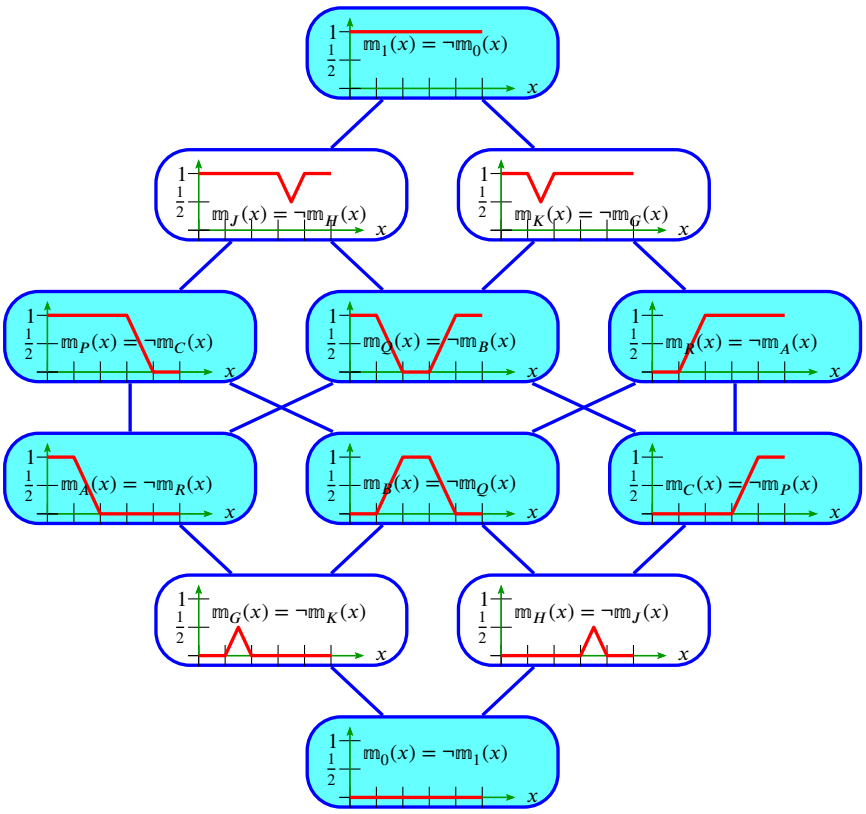
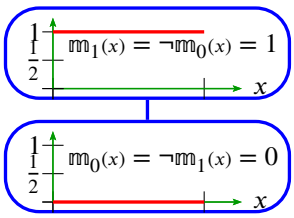
CHAPTER 4

LOGIC

4.1 Fuzzy Logic: common/math/graphics/fuzzy





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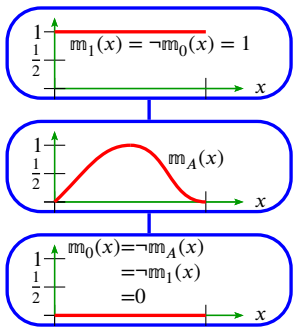

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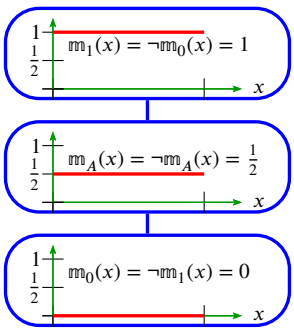

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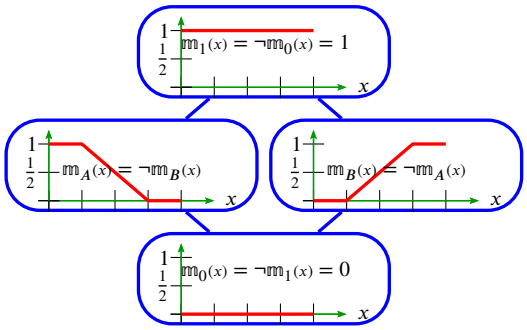

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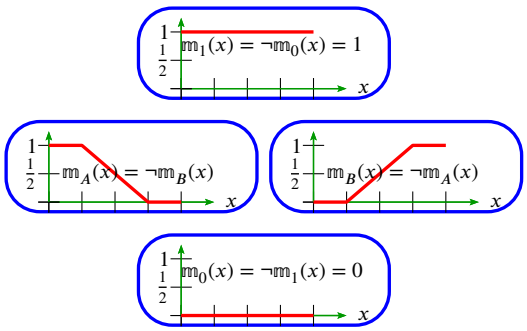

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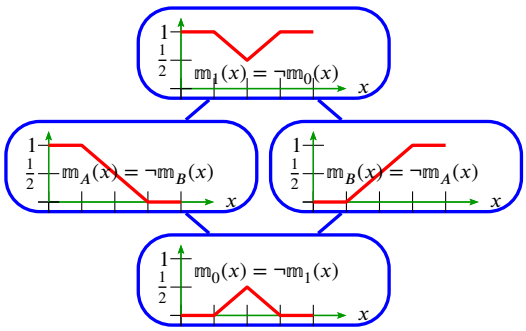

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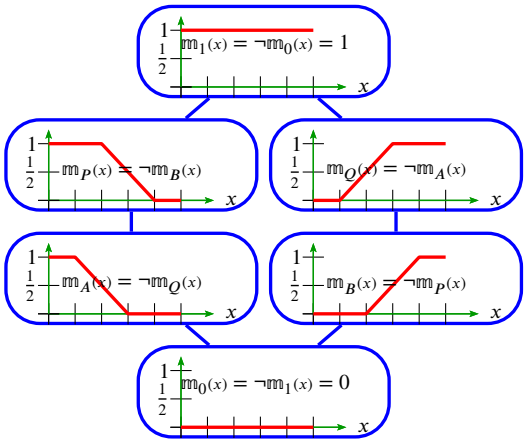

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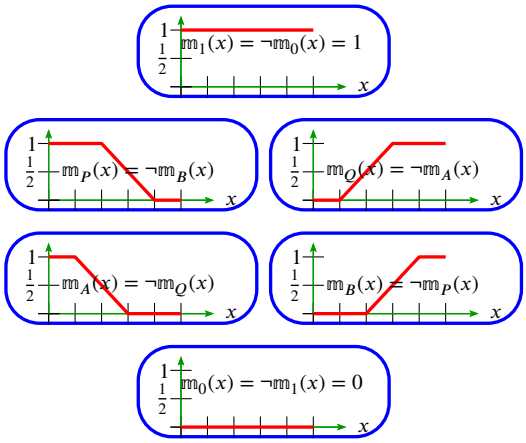

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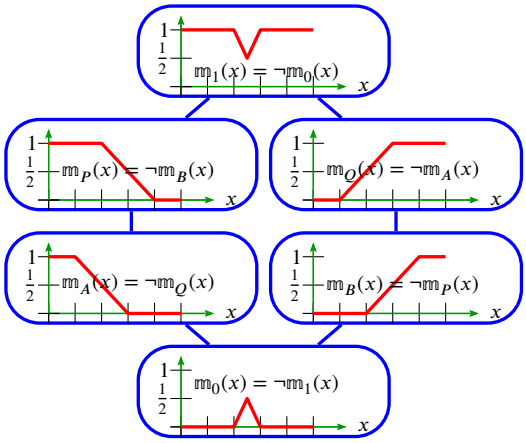

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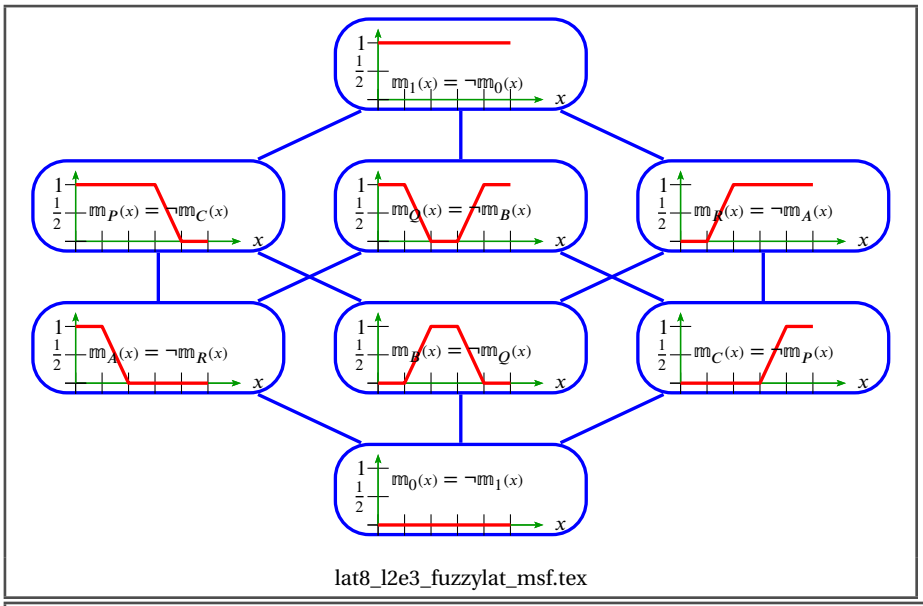

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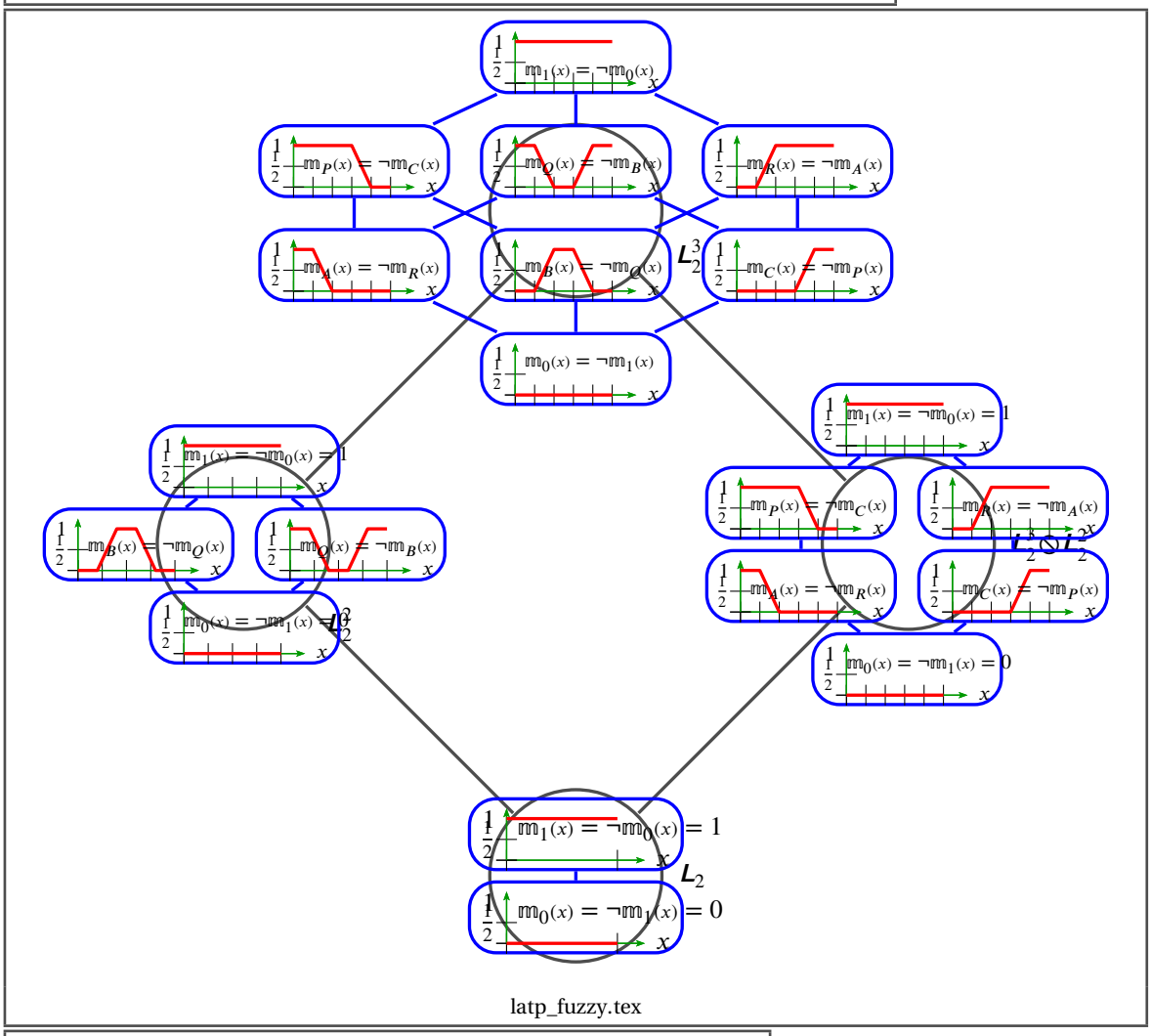

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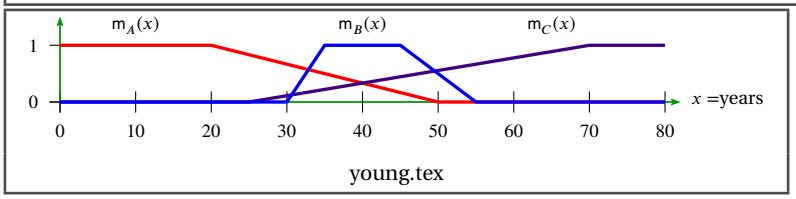

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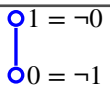
4.2 Negation: common/math/graphics/neg



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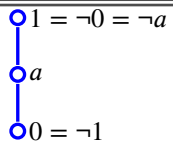

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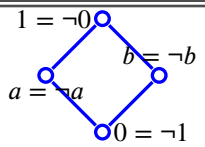

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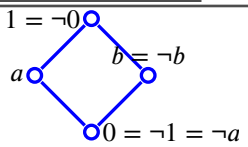

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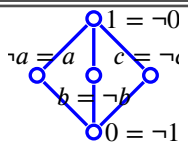

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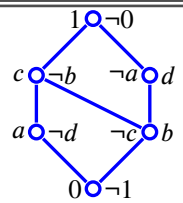

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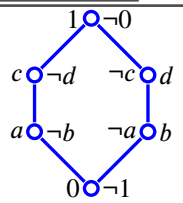

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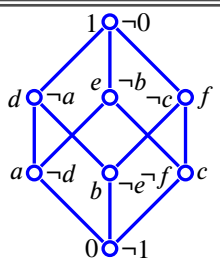

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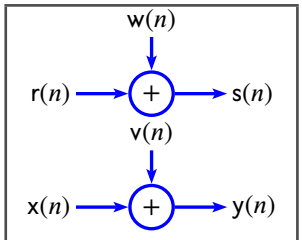
CHAPTER 5

SIGNAL PROCESSING

5.1 Sytems: common/math/graphics/system



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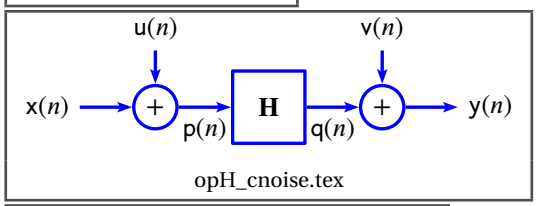

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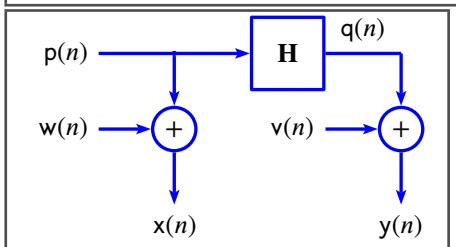

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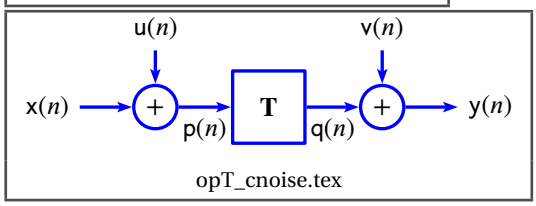

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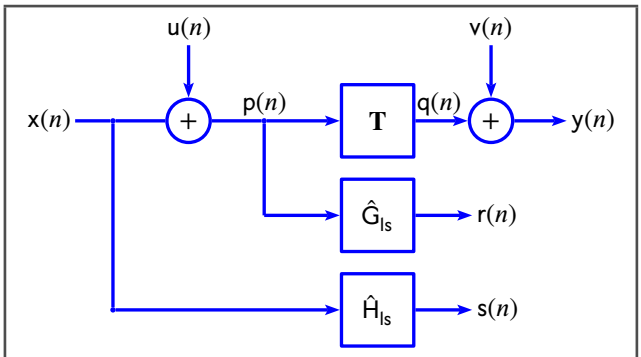

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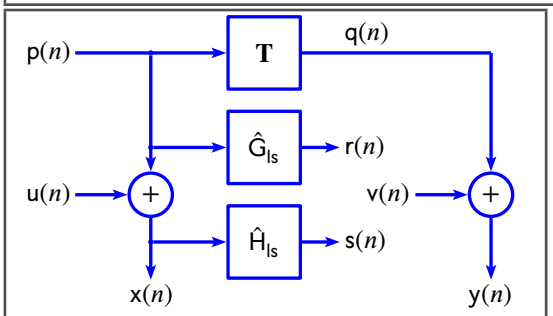

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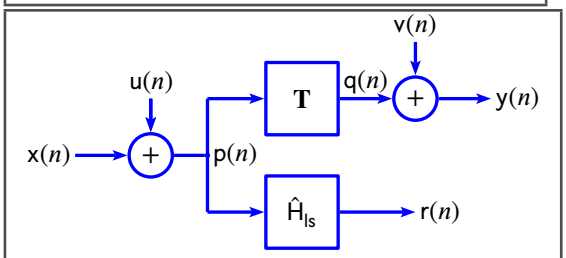

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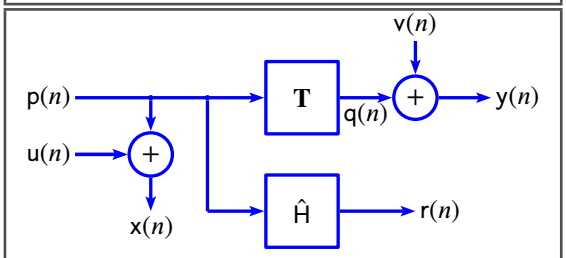

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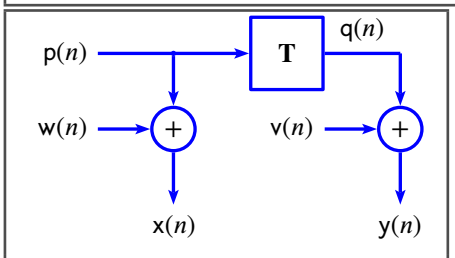

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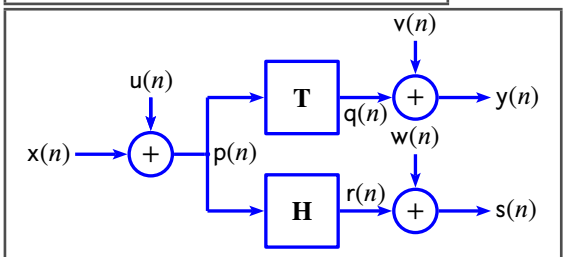

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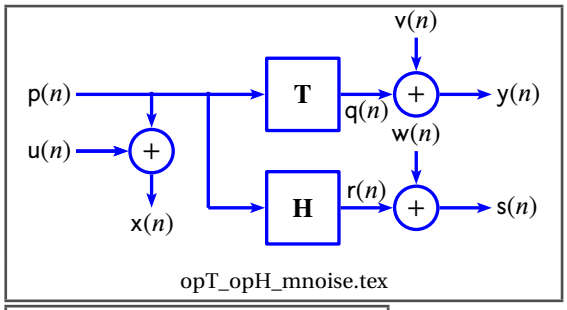

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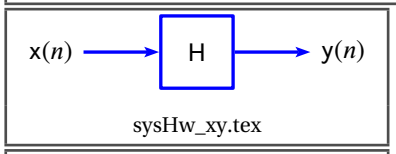

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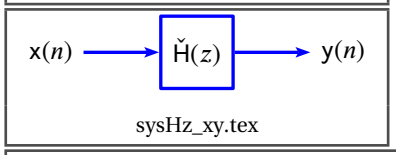

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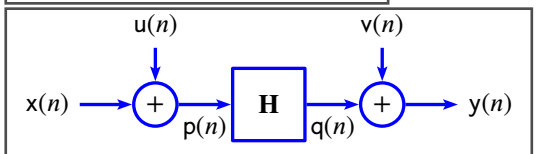

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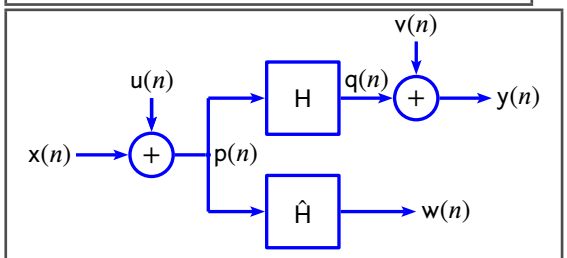

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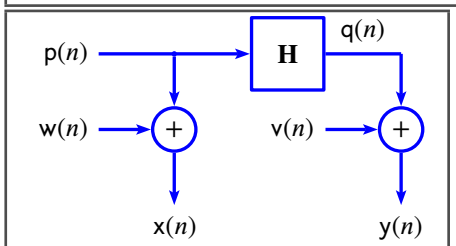

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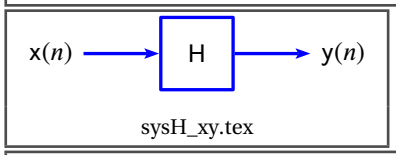

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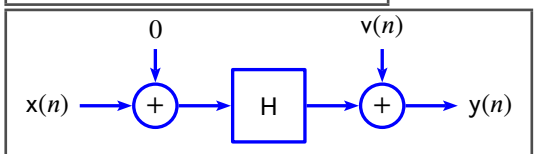

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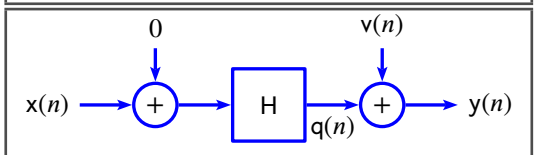

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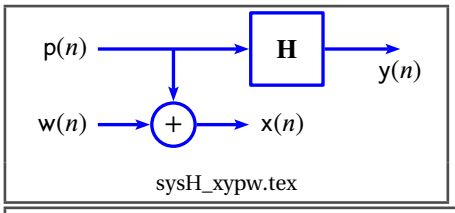

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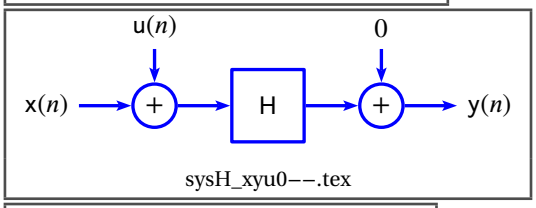

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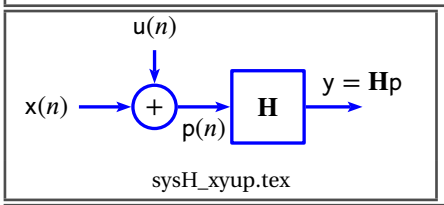

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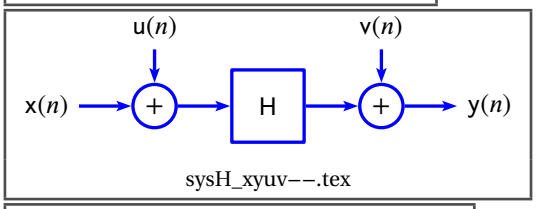

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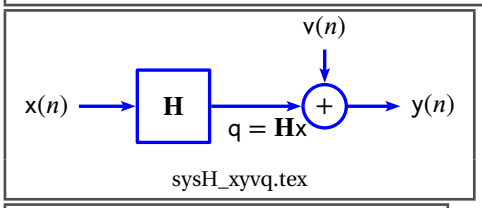

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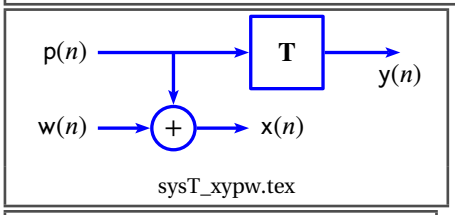

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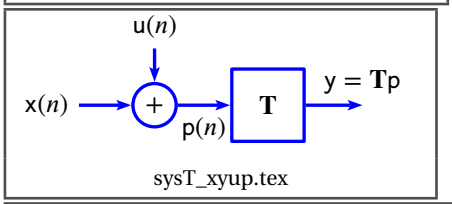

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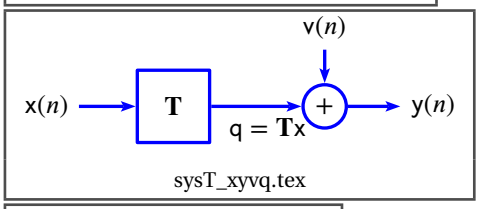

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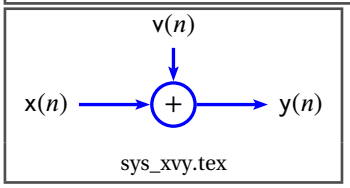

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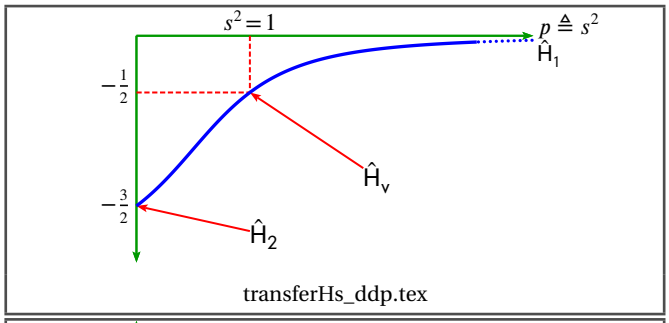

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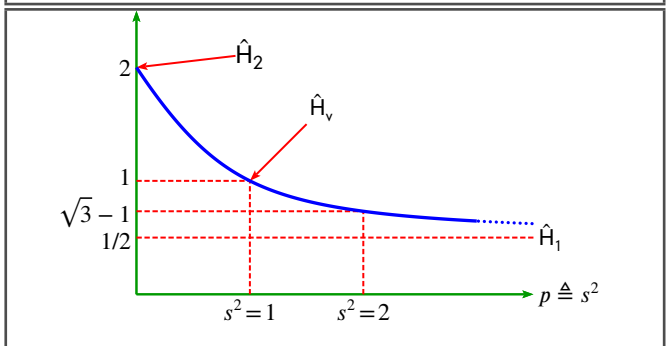

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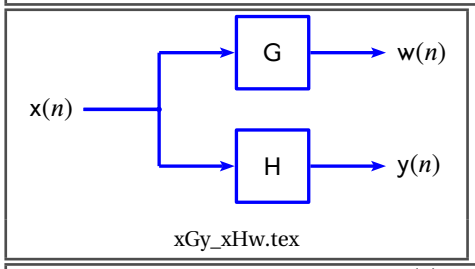

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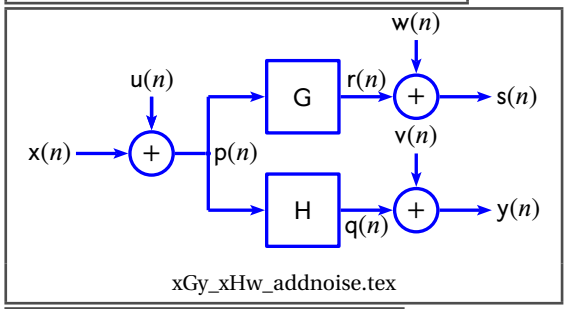

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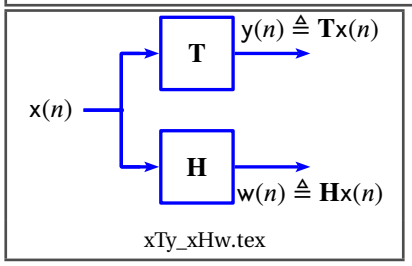

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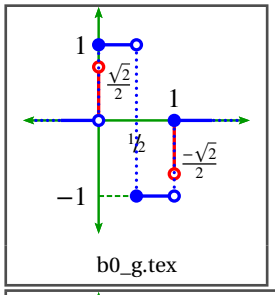
CHAPTER 6

FRAMES AND BASES

6.1 B-Splines: common/math/graphics/bsplines



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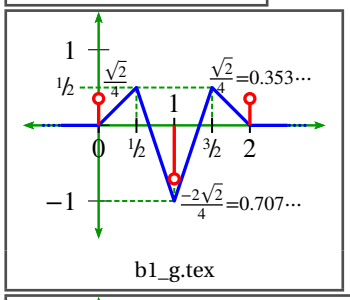

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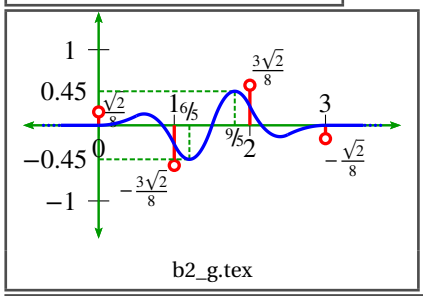

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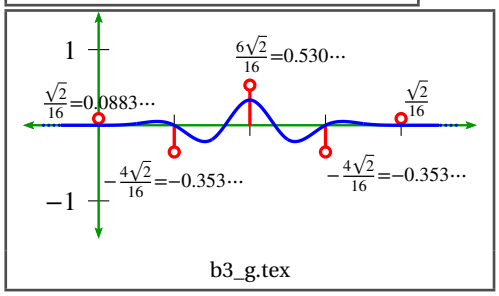

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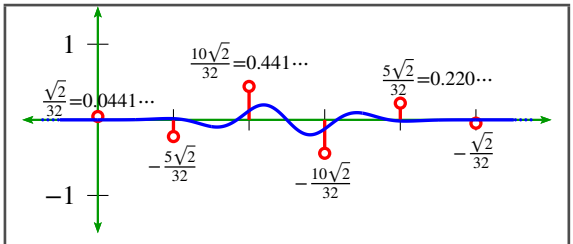

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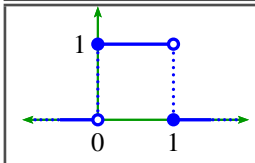

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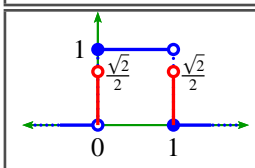

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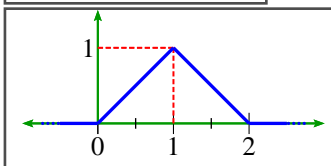

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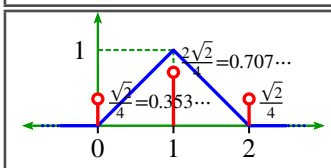

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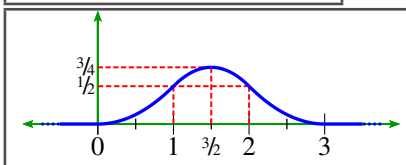

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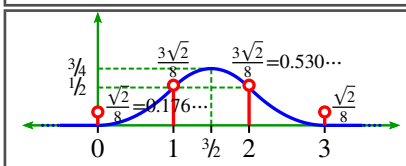

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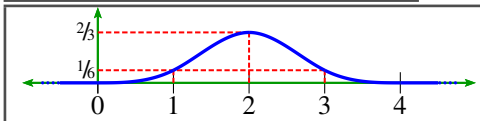

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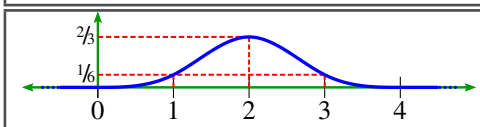

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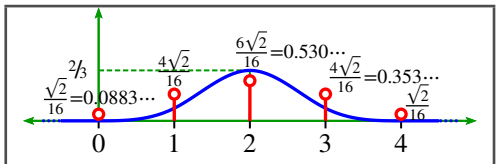

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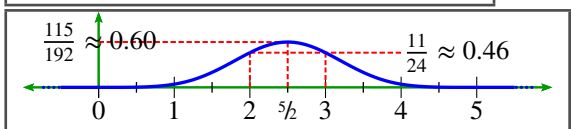

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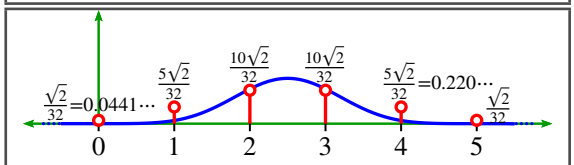

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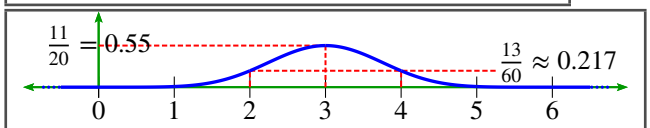

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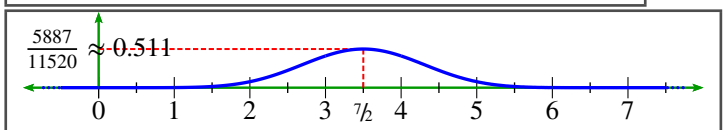

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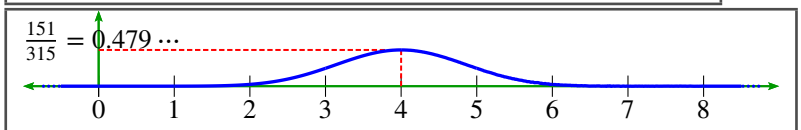

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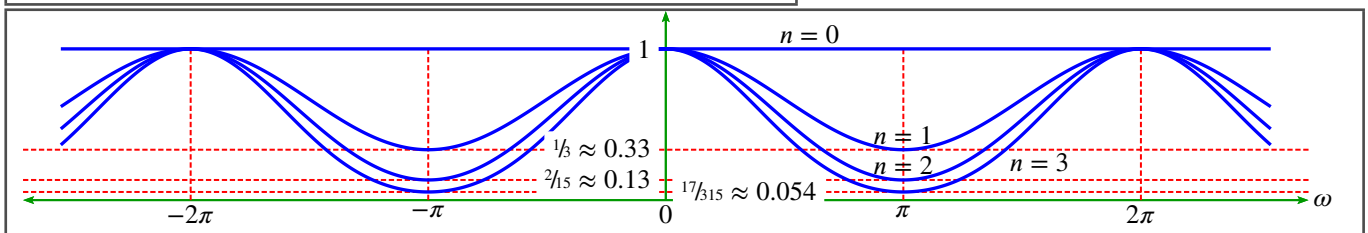

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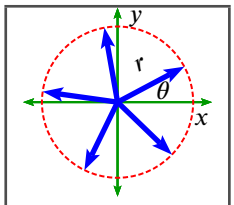

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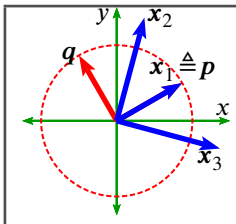

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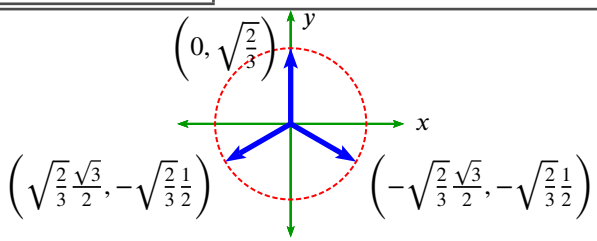

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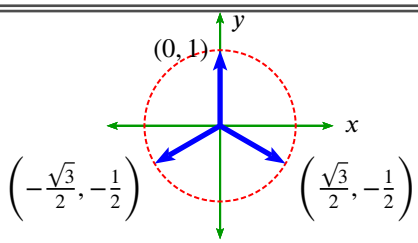

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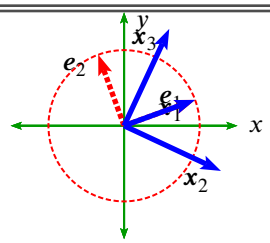

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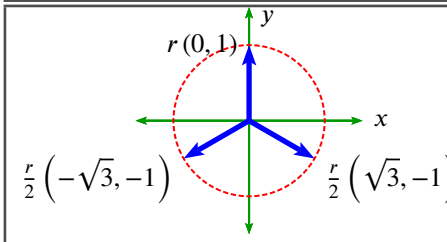

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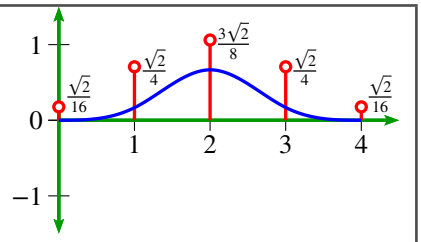

bspline_phi_h.tex

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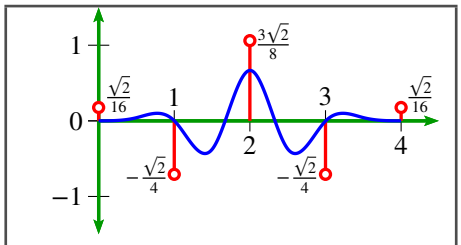

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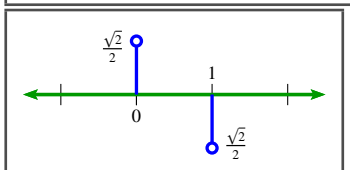

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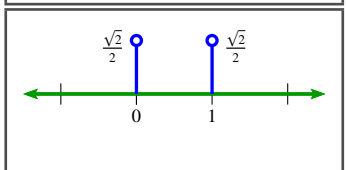

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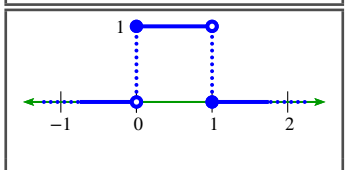

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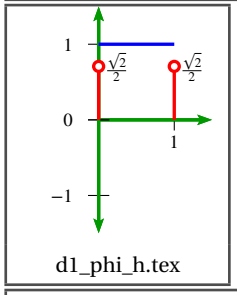

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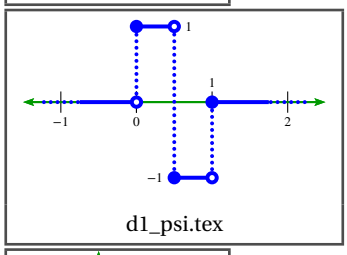

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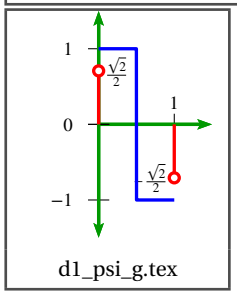

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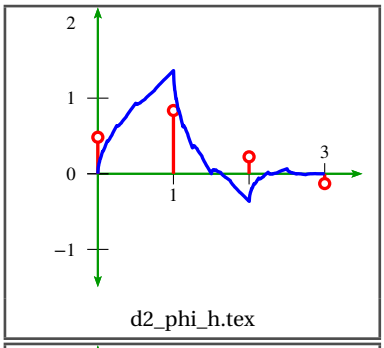

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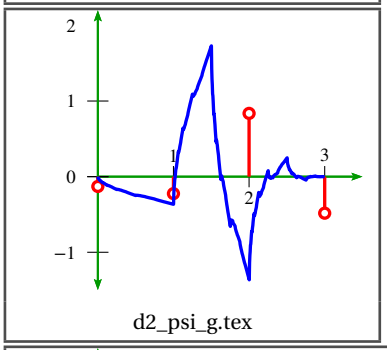

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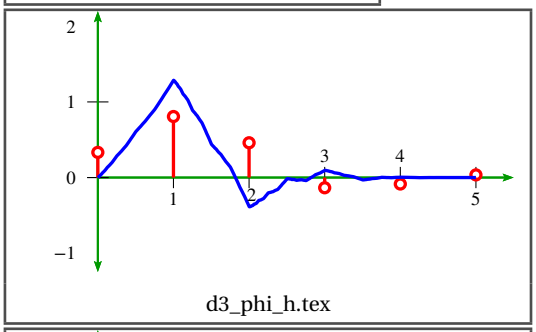

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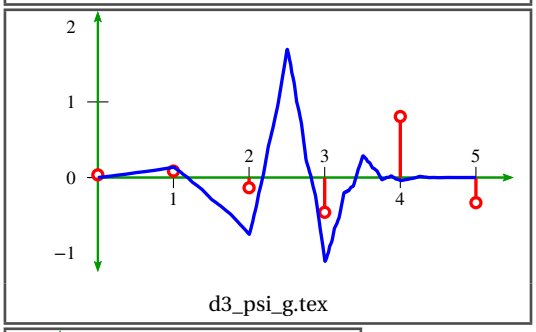

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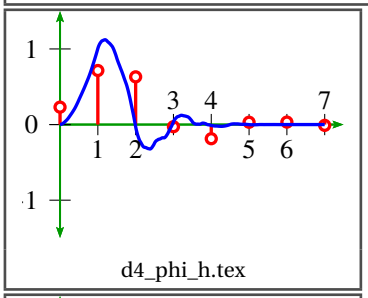

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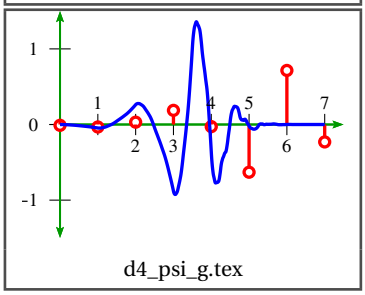

d4_psi_g.tex

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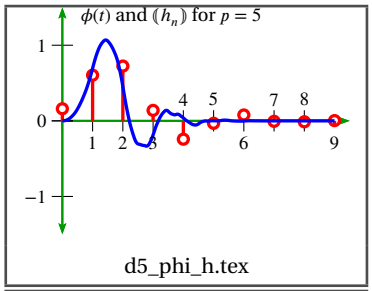

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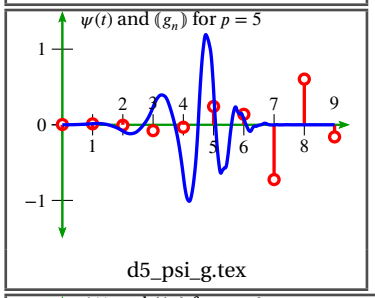

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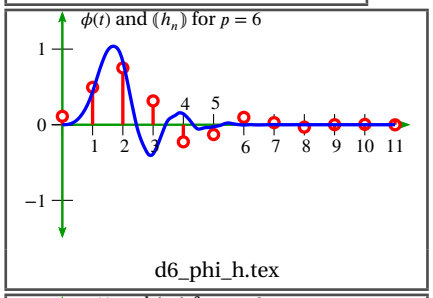

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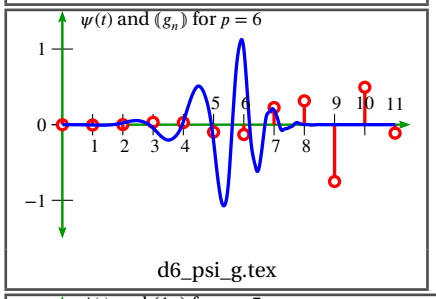

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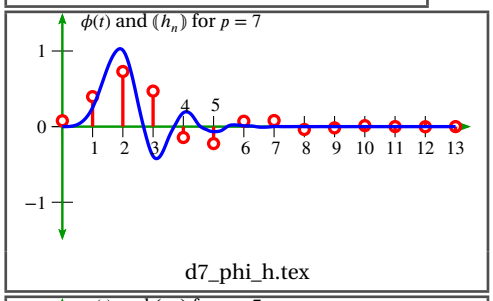

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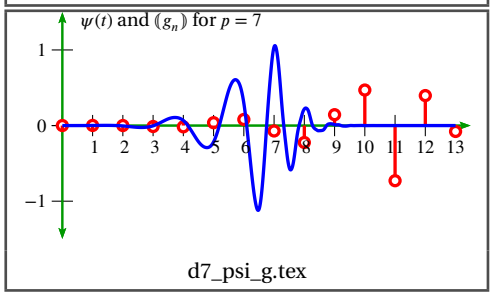

d7_psi_g.tex

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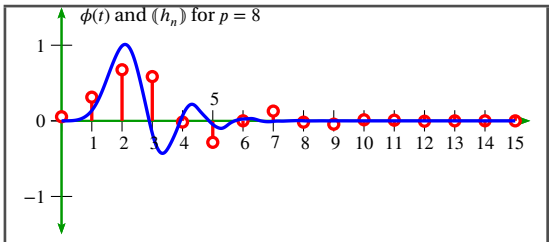

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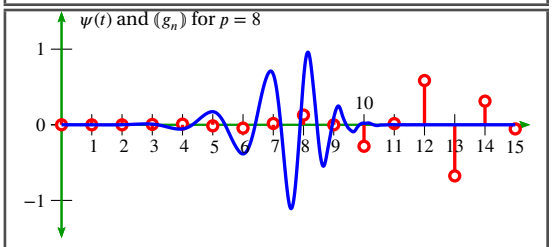

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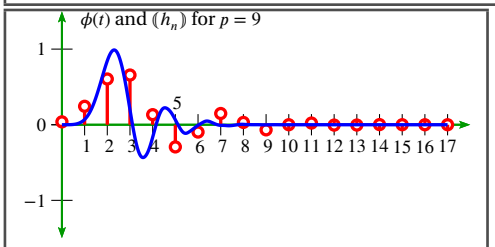

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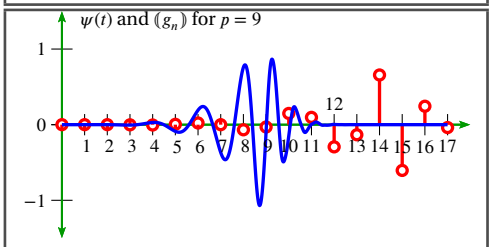

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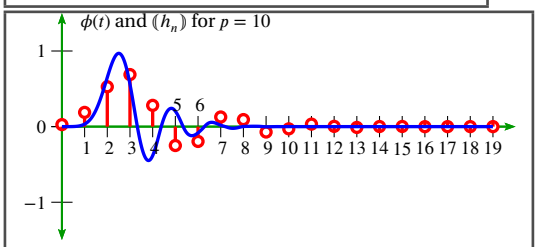

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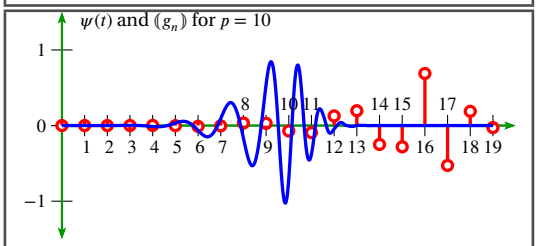

d10_psi_g.tex

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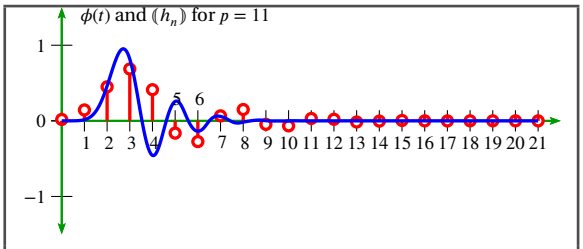

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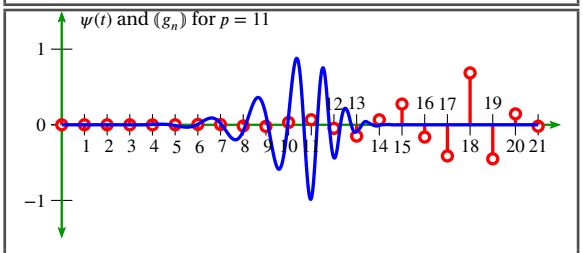

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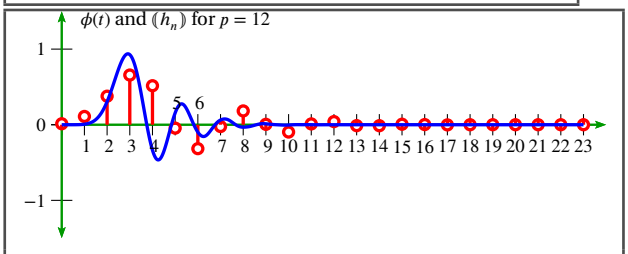

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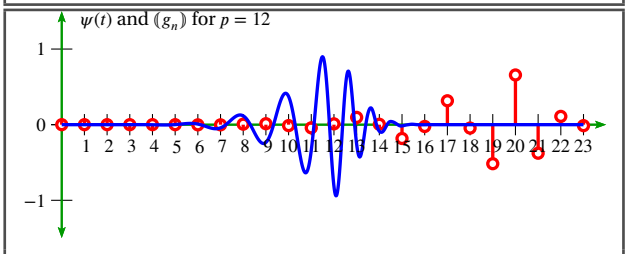

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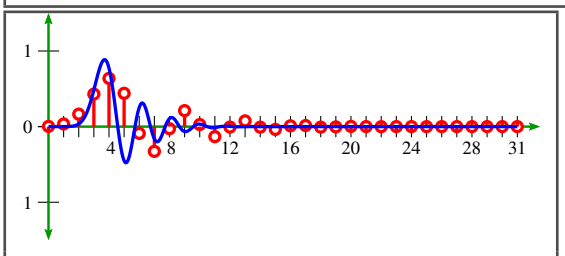

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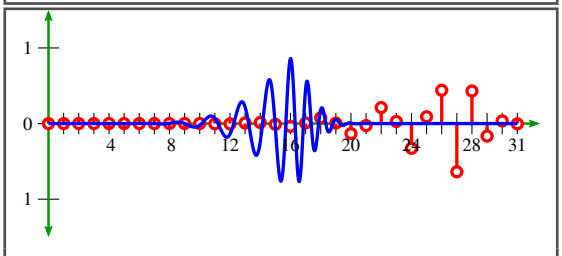

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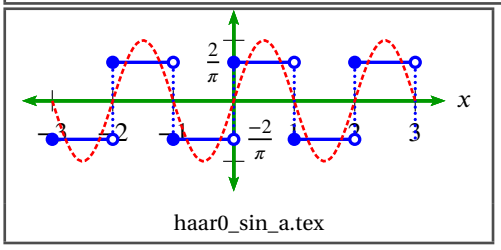

haar0_sin_a.tex

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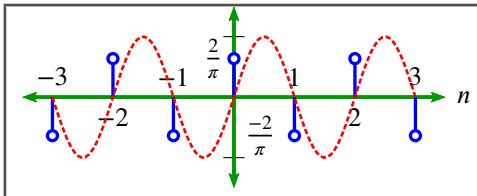

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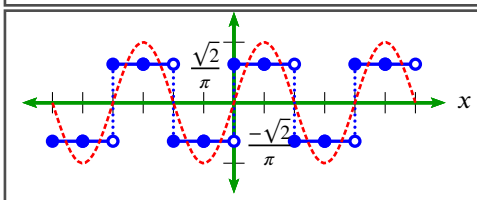

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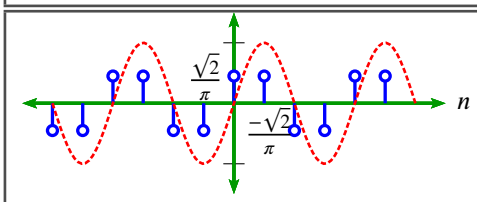

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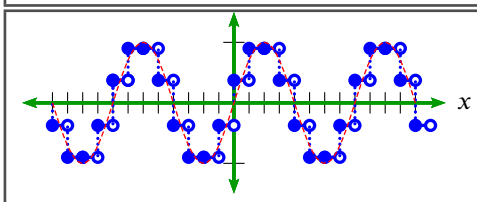

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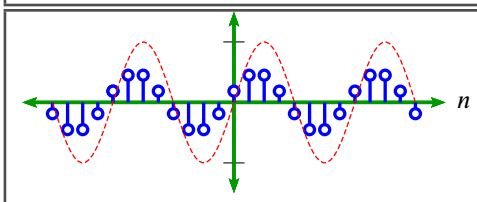

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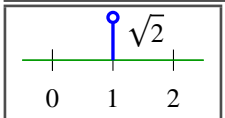

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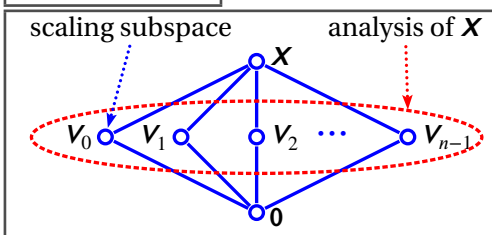

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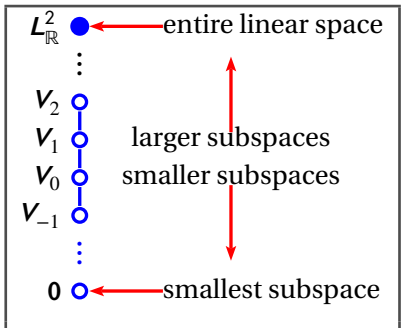

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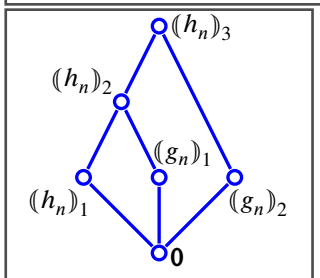

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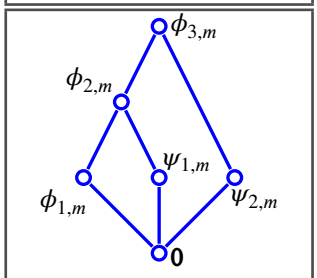

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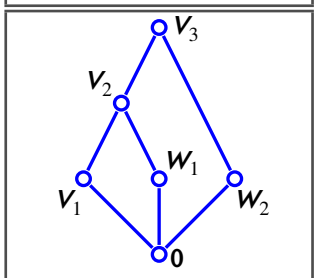

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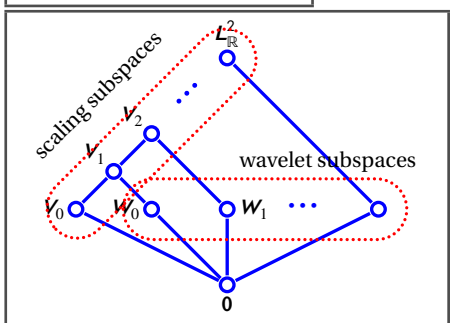

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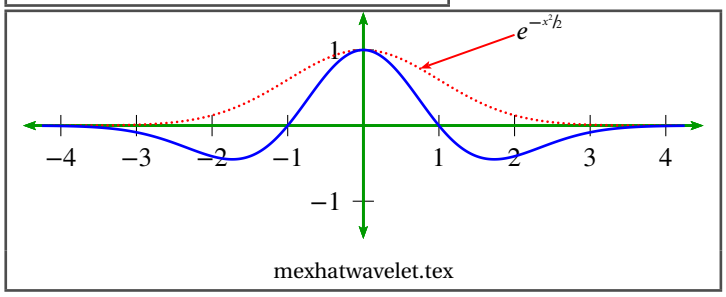

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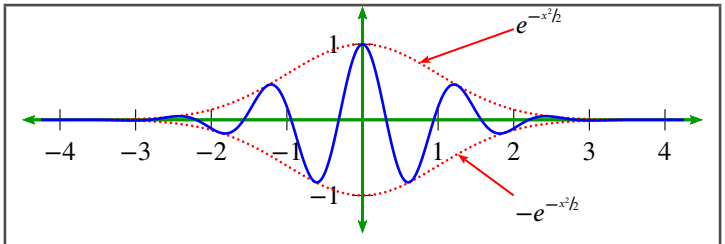

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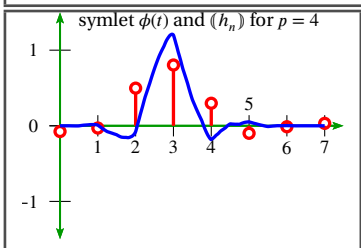

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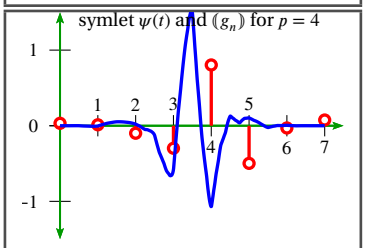

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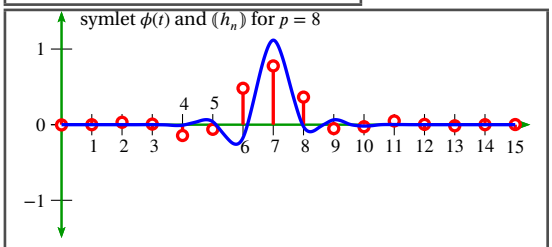

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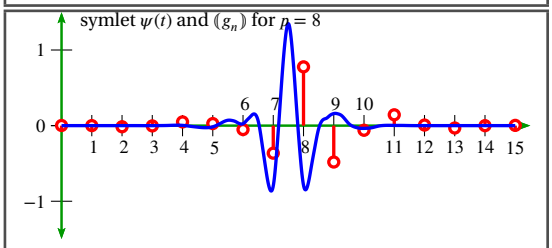

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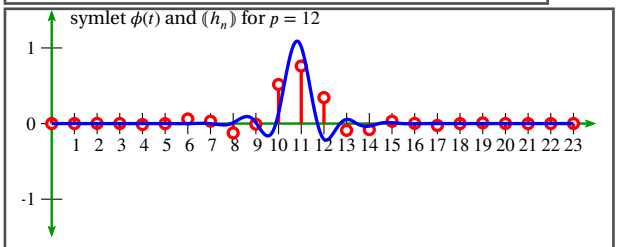

s12_phi_h.tex

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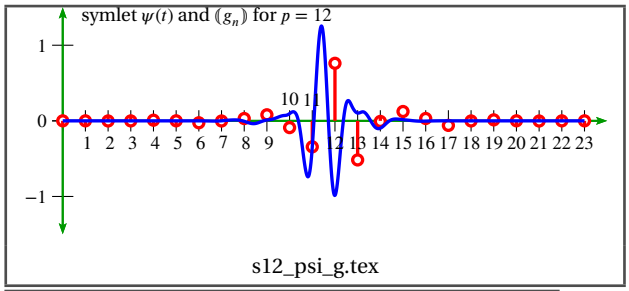

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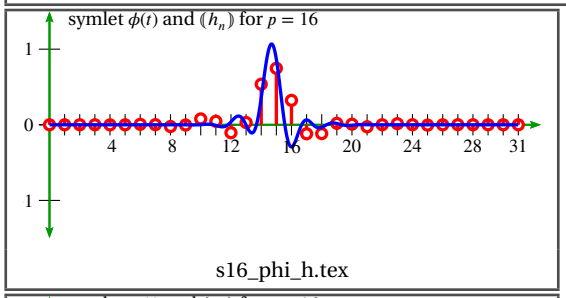

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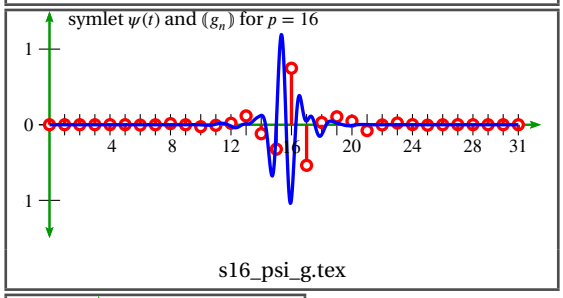

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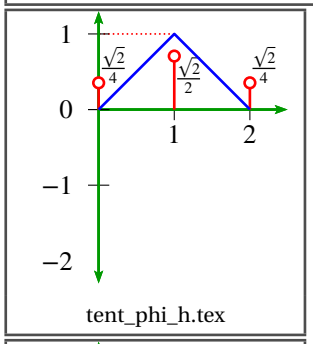

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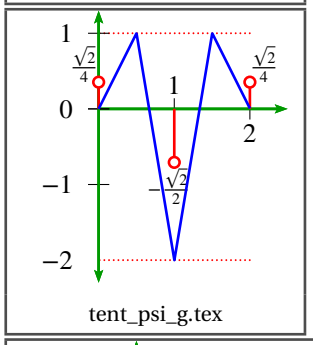

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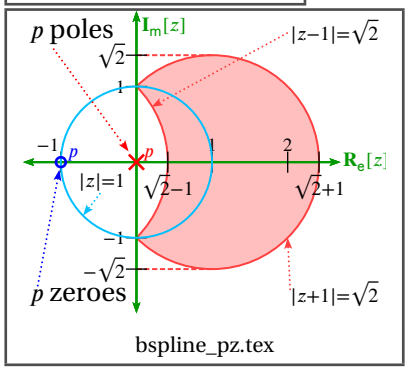

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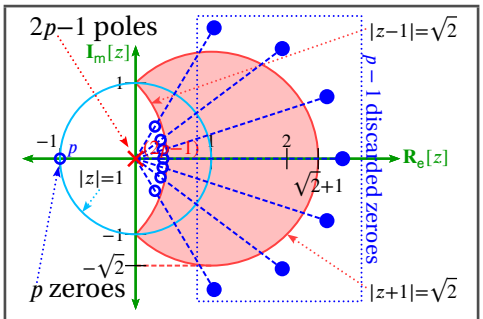

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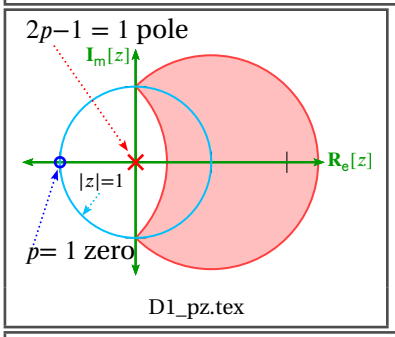

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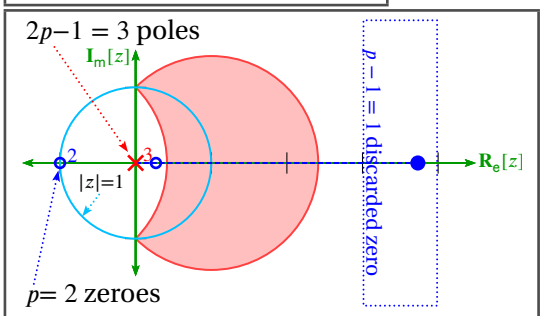

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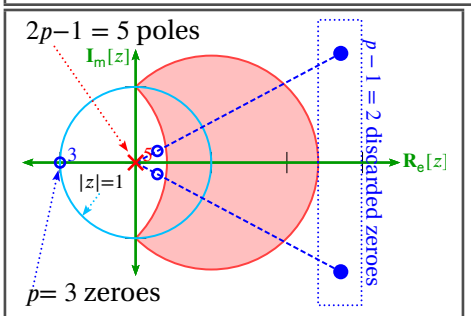

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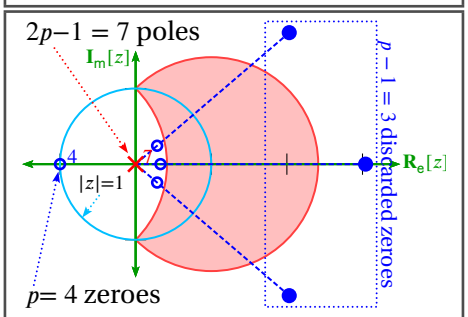

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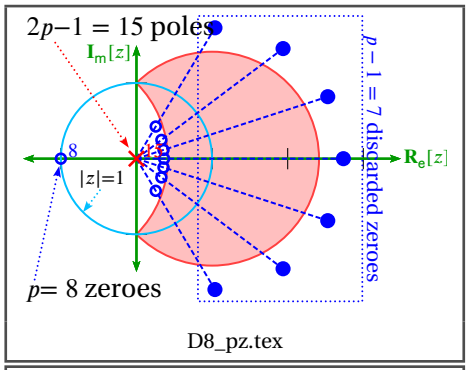

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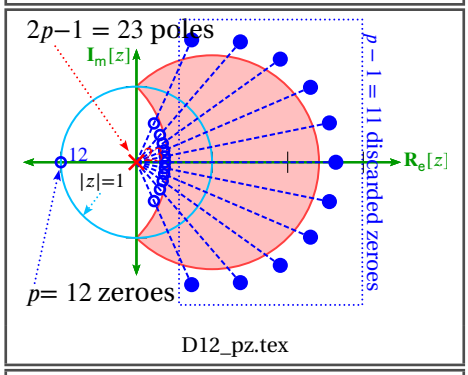

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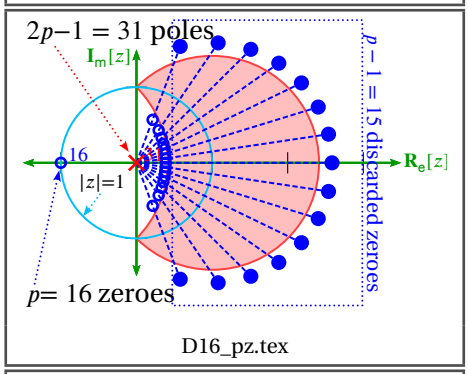

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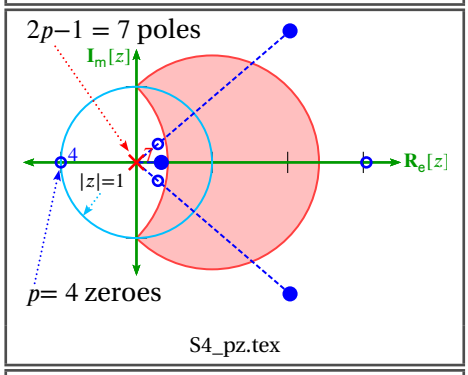

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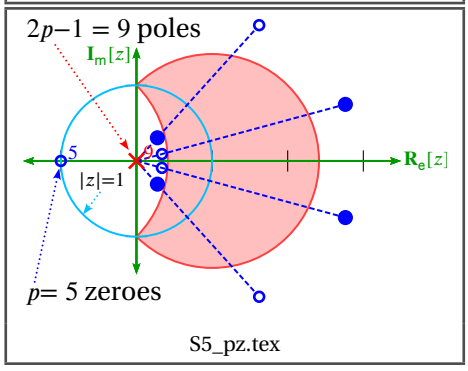

S5_pz.tex

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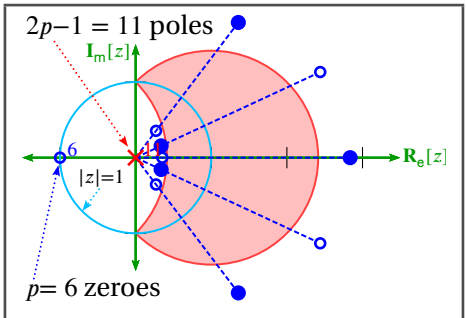

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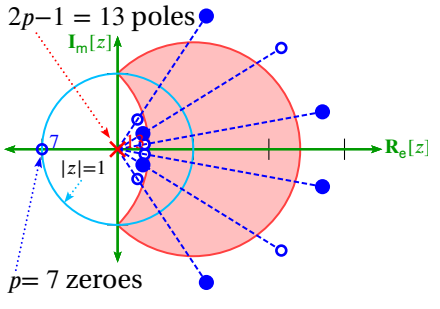

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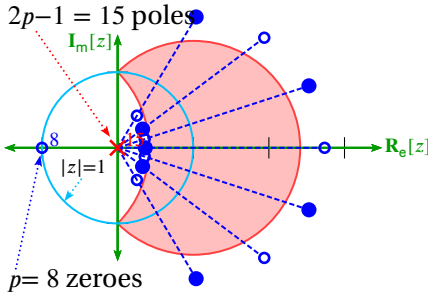

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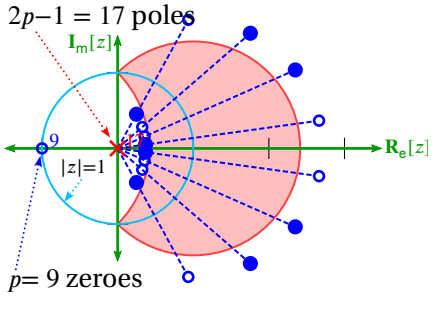

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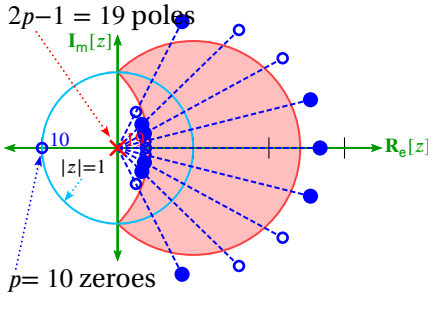

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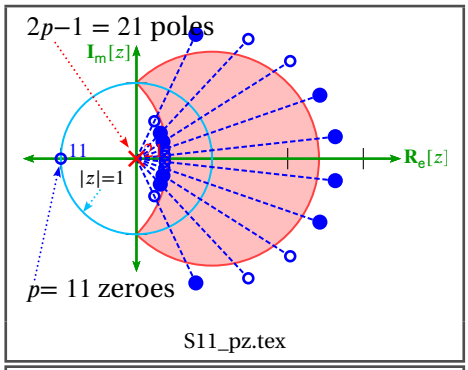

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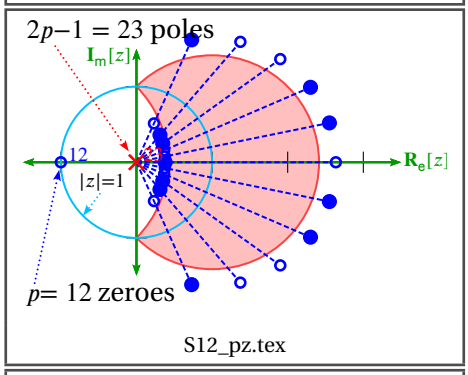

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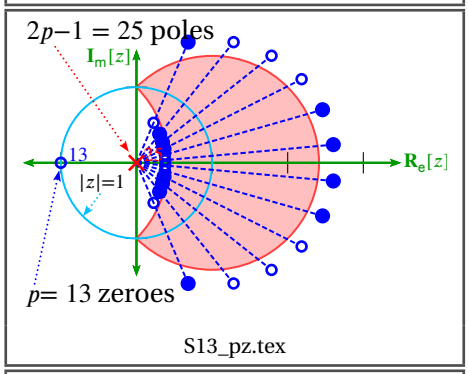

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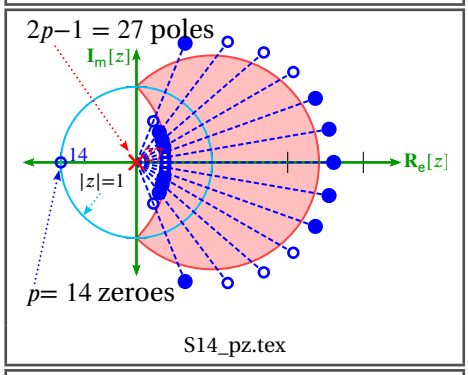

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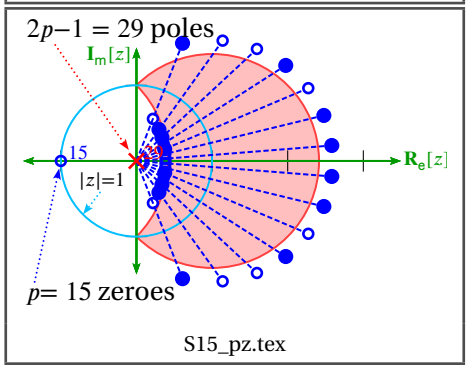

S15_pz.tex

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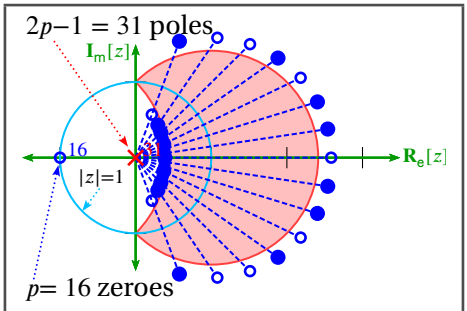

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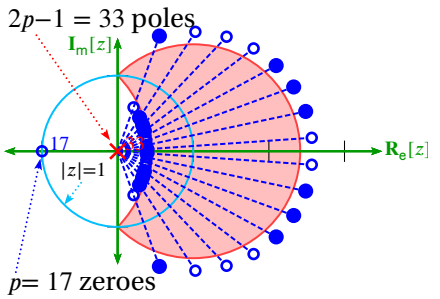

S17_pz.tex

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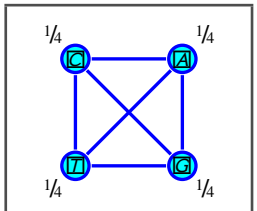
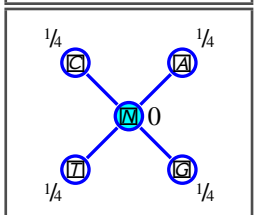
CHAPTER 7

SYMBOLIC SEQUENCE PROCESSING

7.1 Outcome Subspaces: common/math/graphics/ocs



ocs_dna.tex



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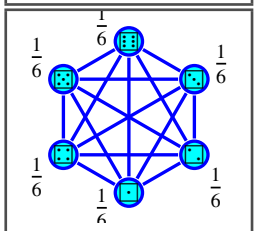

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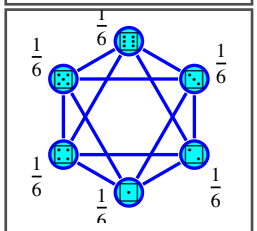

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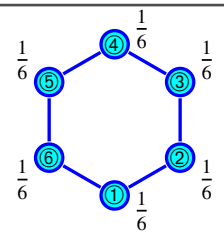

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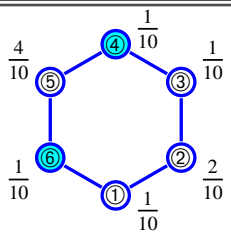

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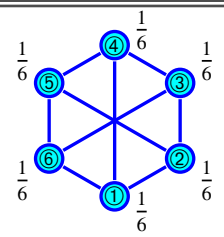

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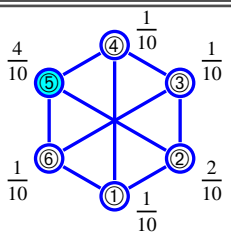

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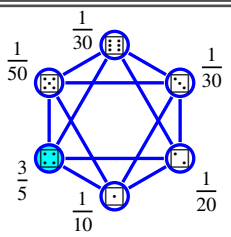

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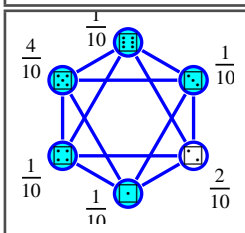

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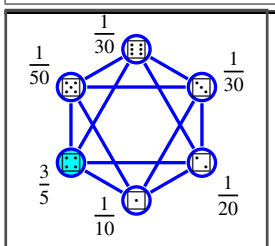
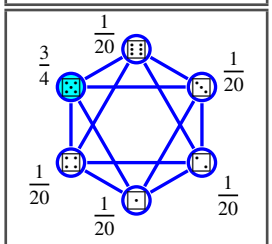


ocs_wrdie.tex



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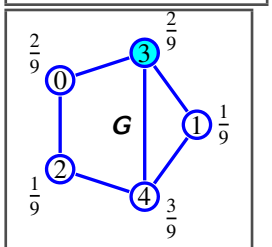
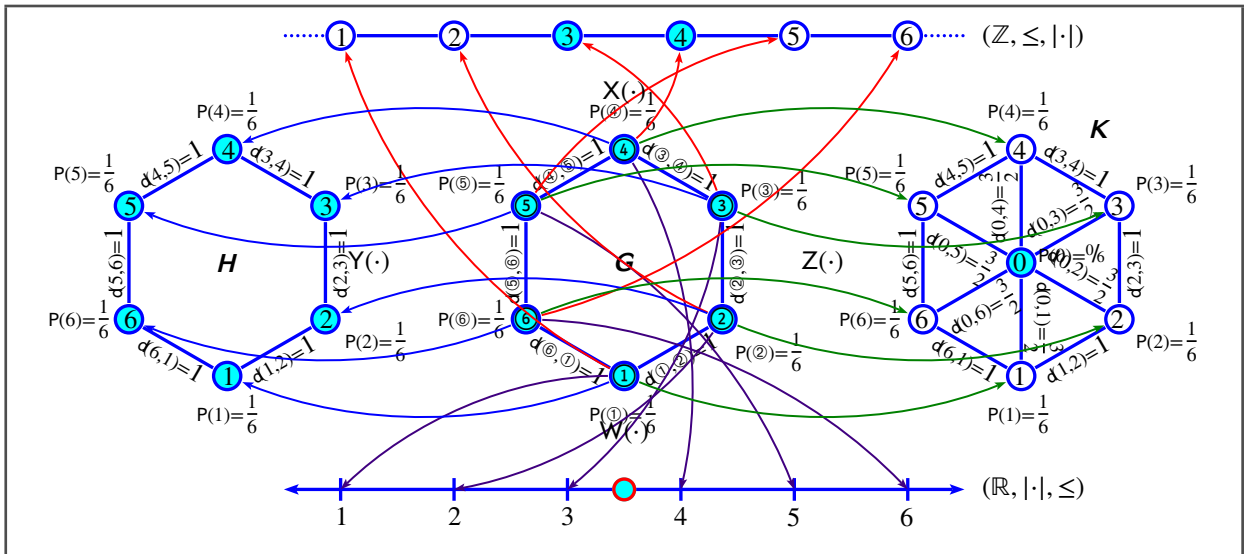


wring5short.tex

7.2 Outcome Random Variable: common/math/graphics/ocsrv



ocsrv_spinner_xy.tex

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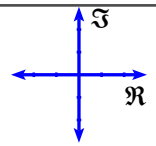
7.3 Outcome Metric Subspaces: common/math/graphics/oms



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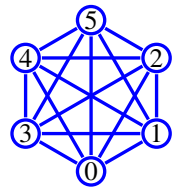

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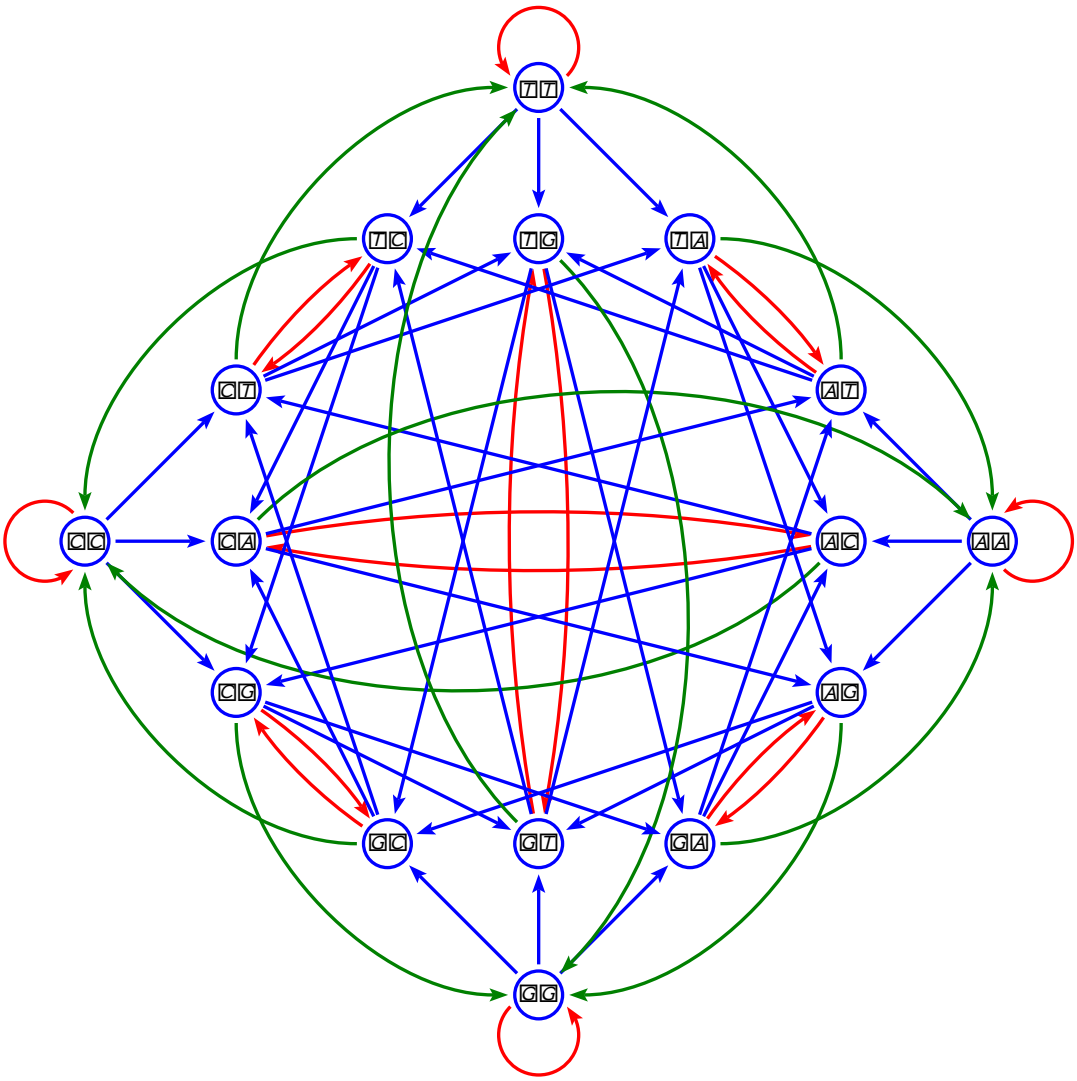

gsp_markov2.tex

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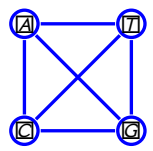

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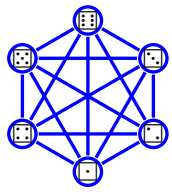

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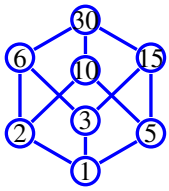

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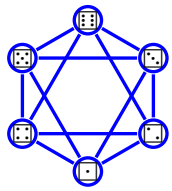

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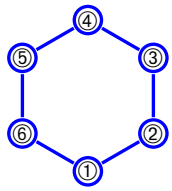

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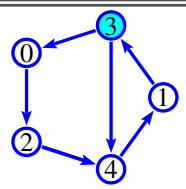

oms_wring5shortd.tex

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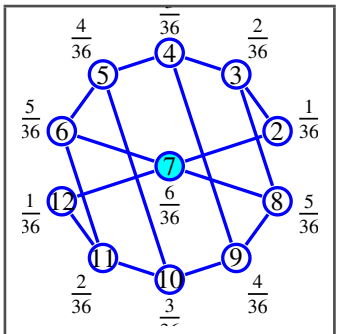

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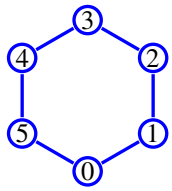

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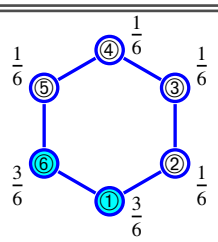

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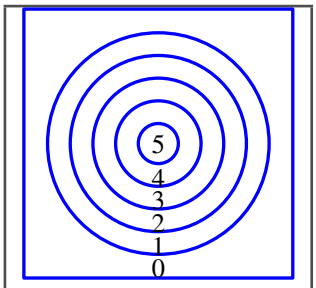

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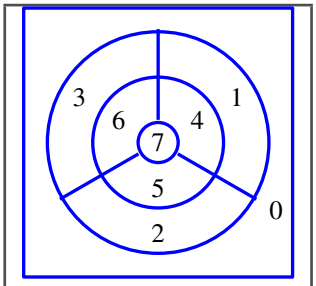

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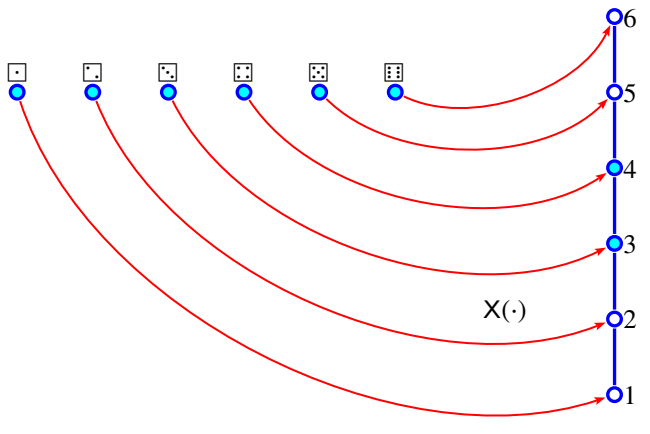

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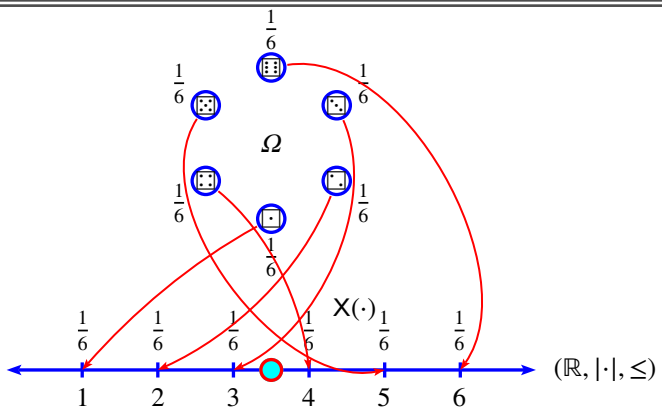

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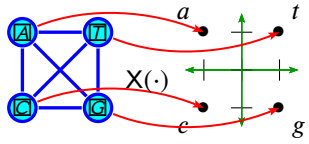

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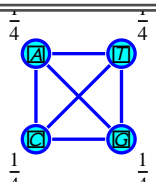

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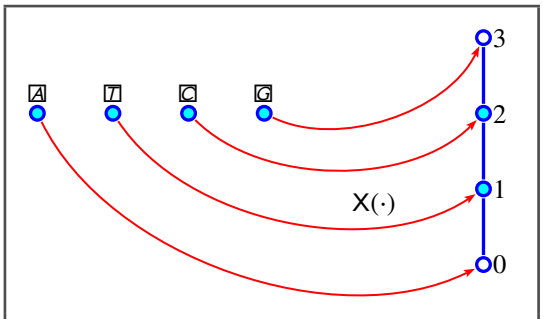

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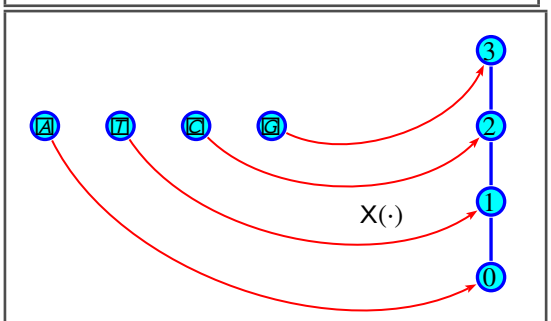

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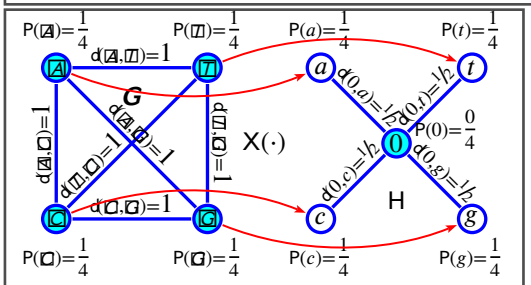

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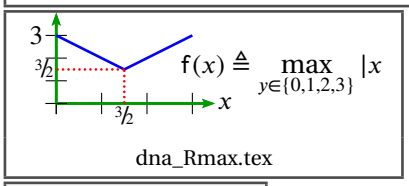

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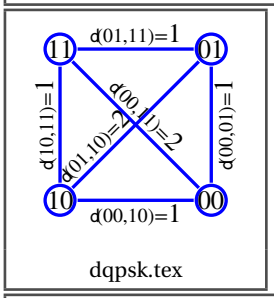

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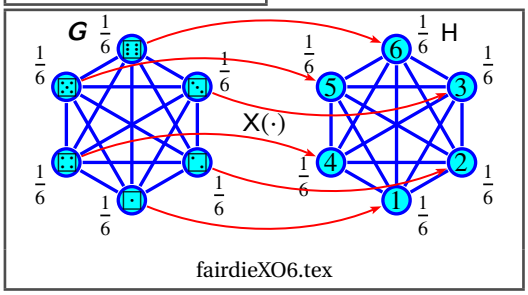

fairdieXO6.tex

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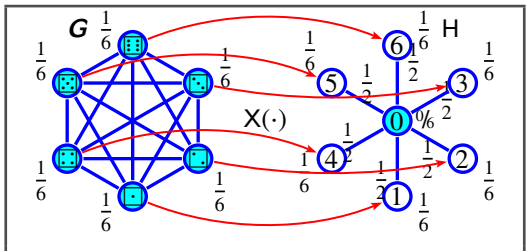

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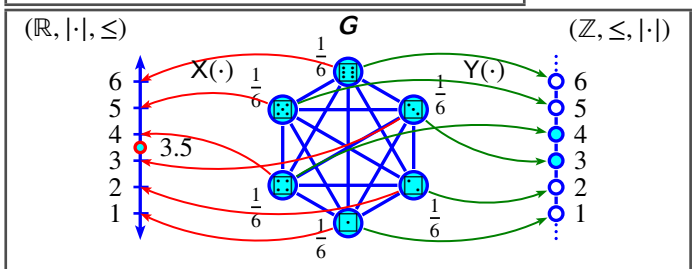

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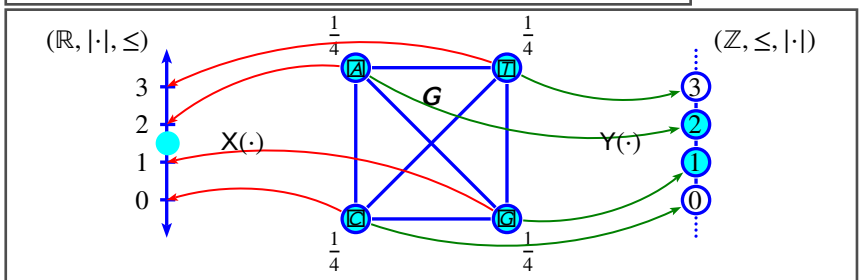

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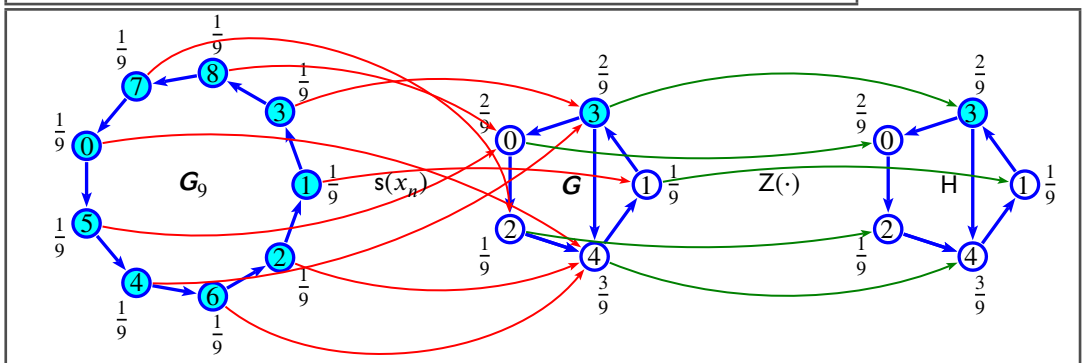

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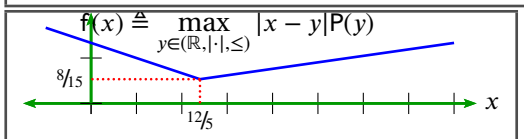

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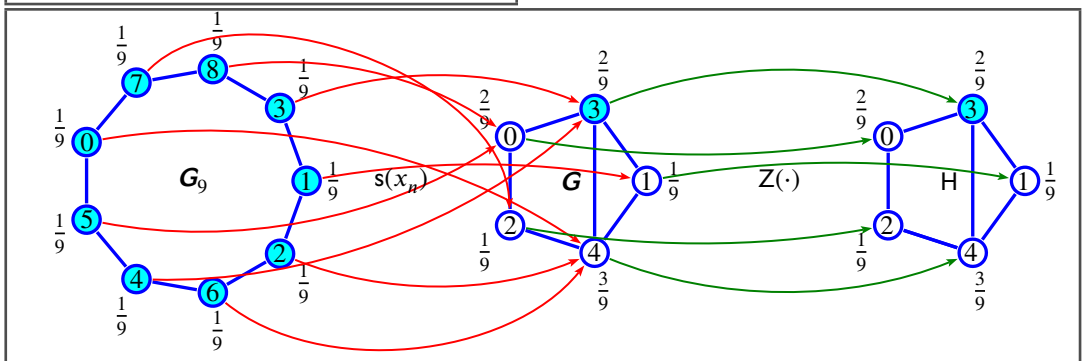

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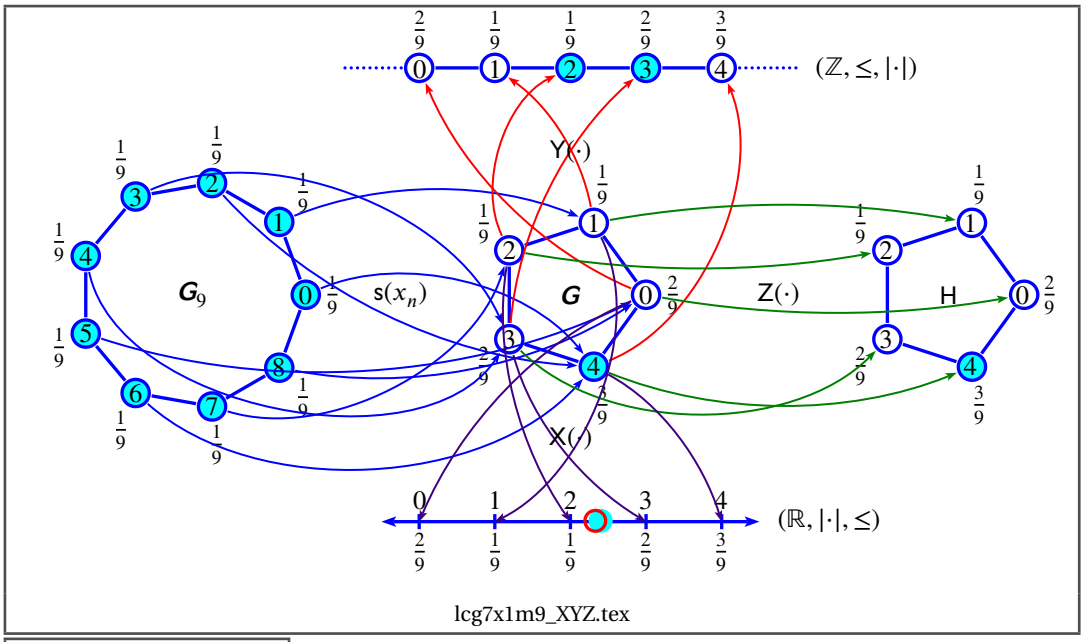

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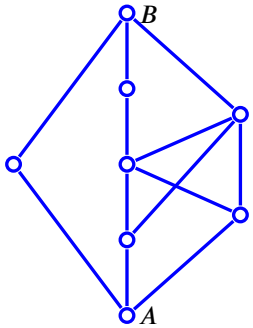

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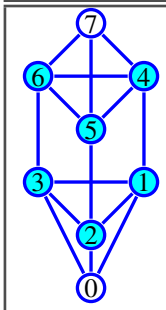
ocsarchery.tex



ocsdarts.tex

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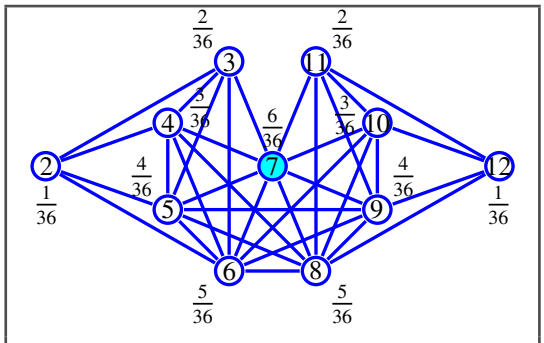

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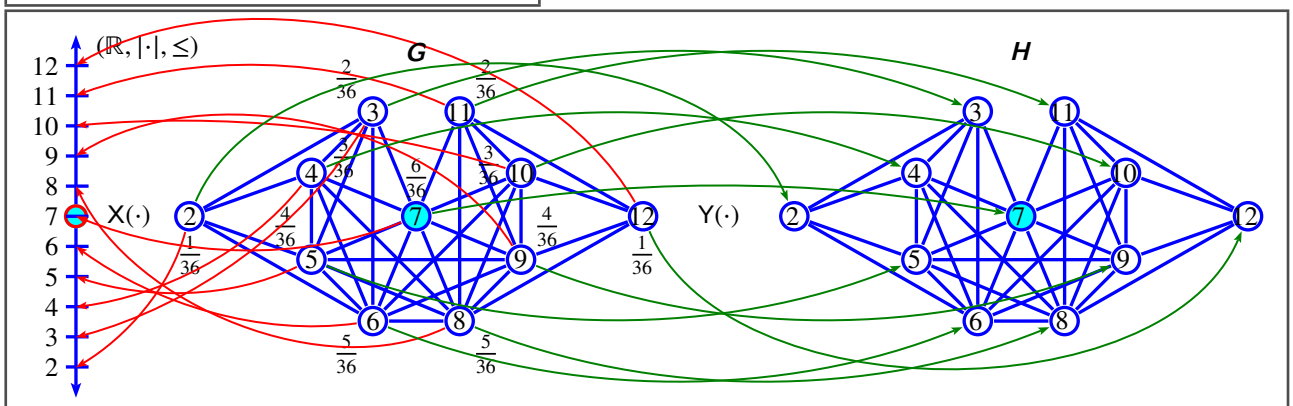

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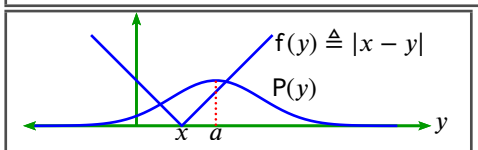

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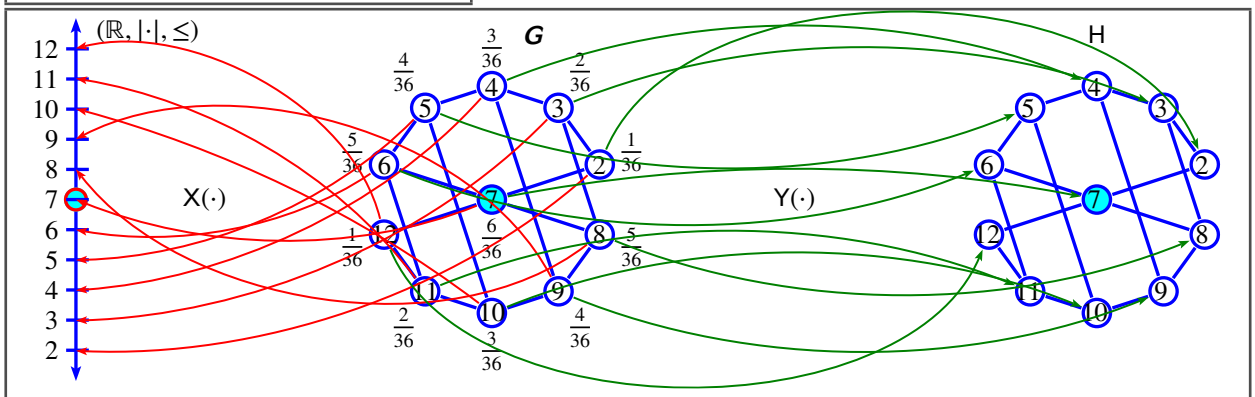

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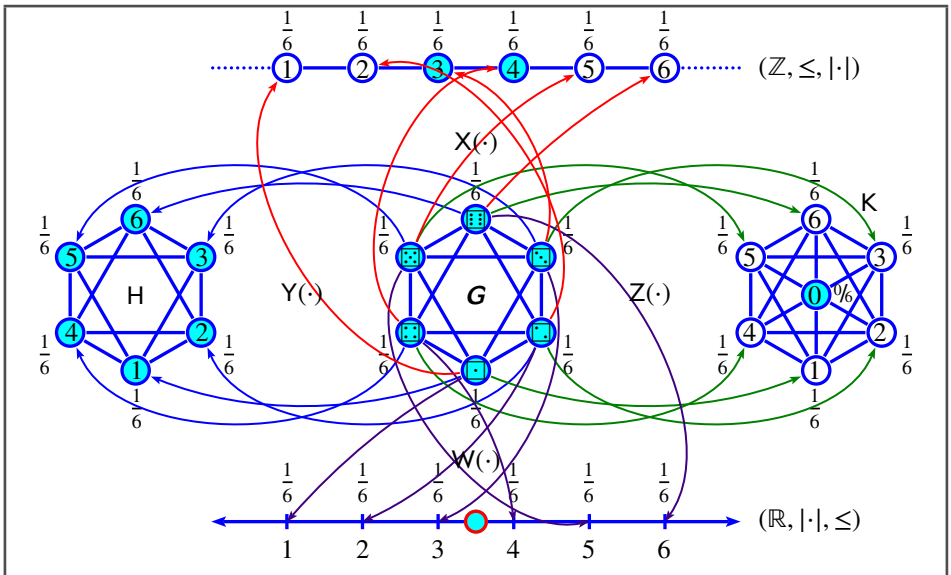

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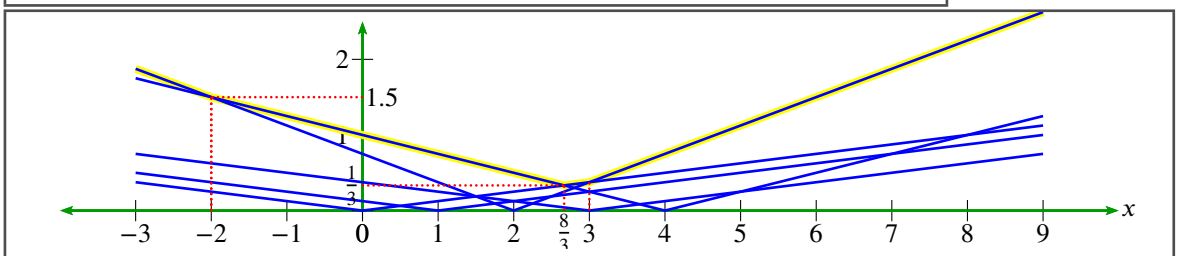

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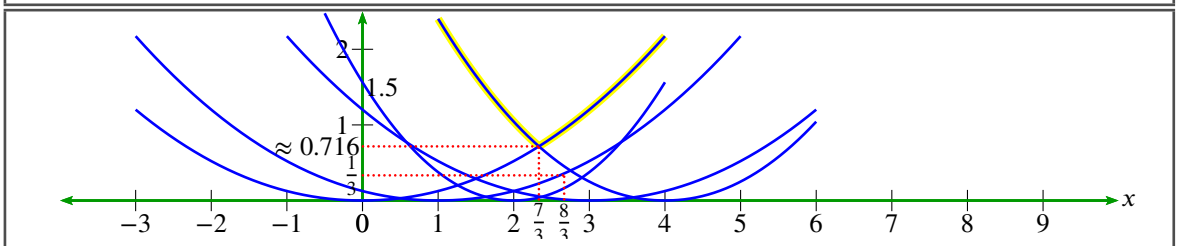

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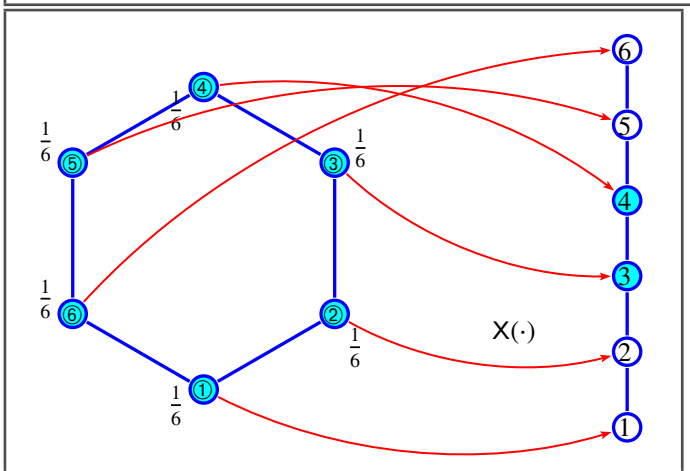

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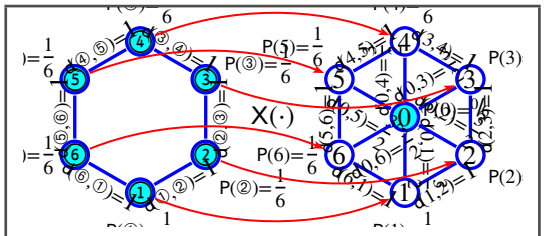

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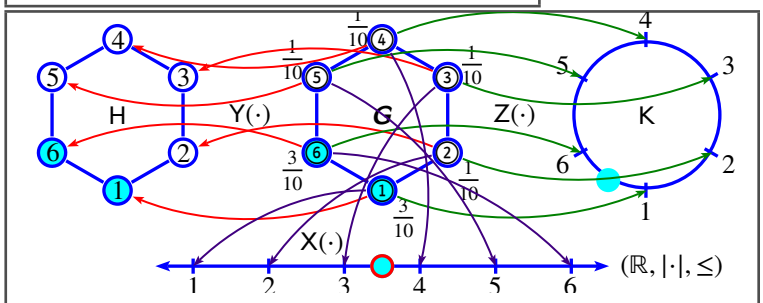

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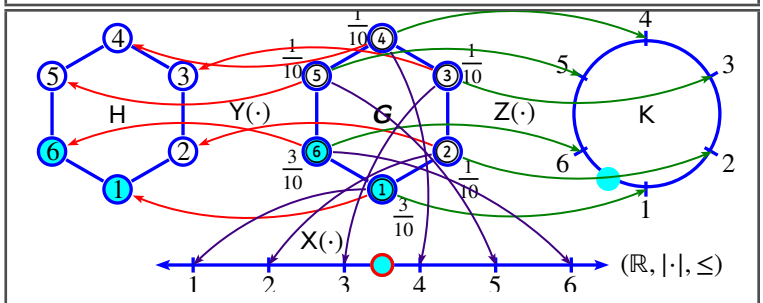

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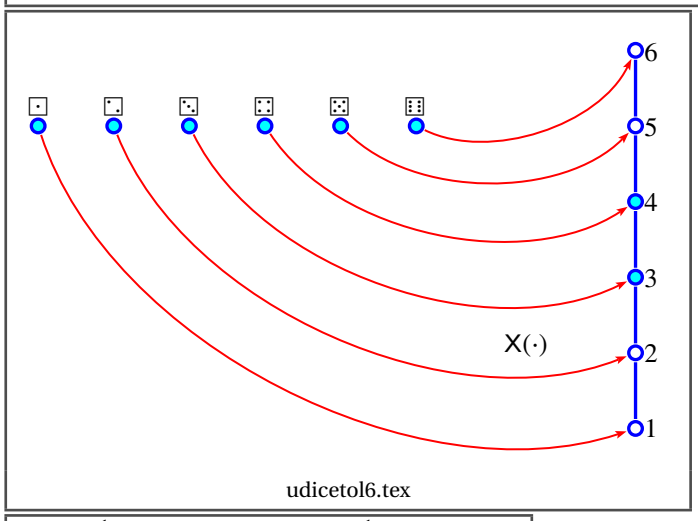

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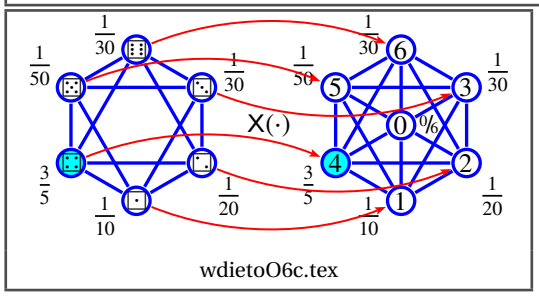

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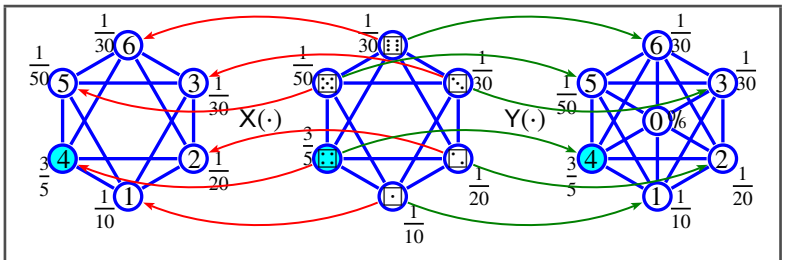

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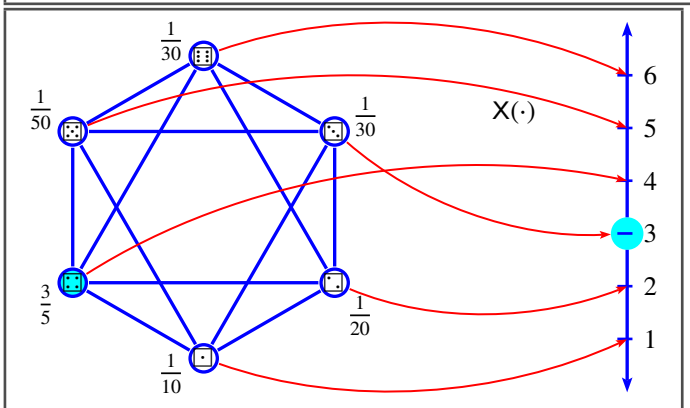

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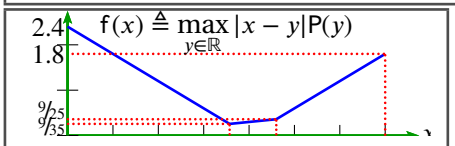

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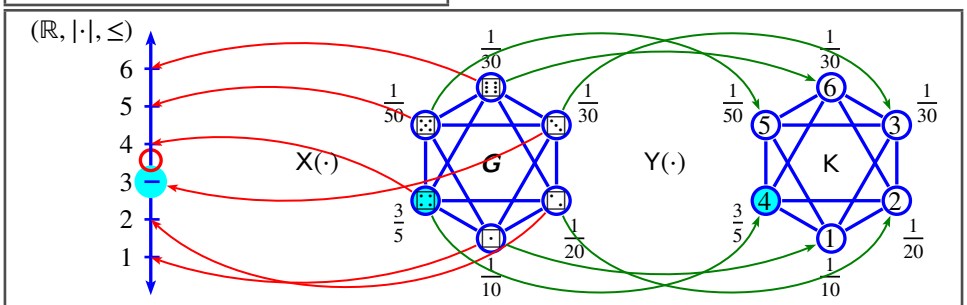

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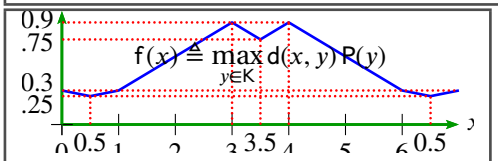

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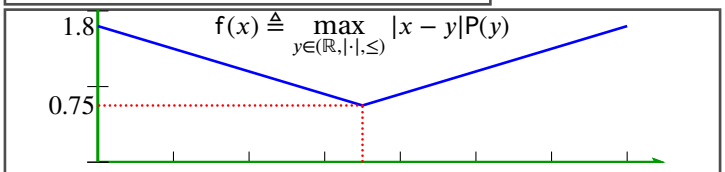

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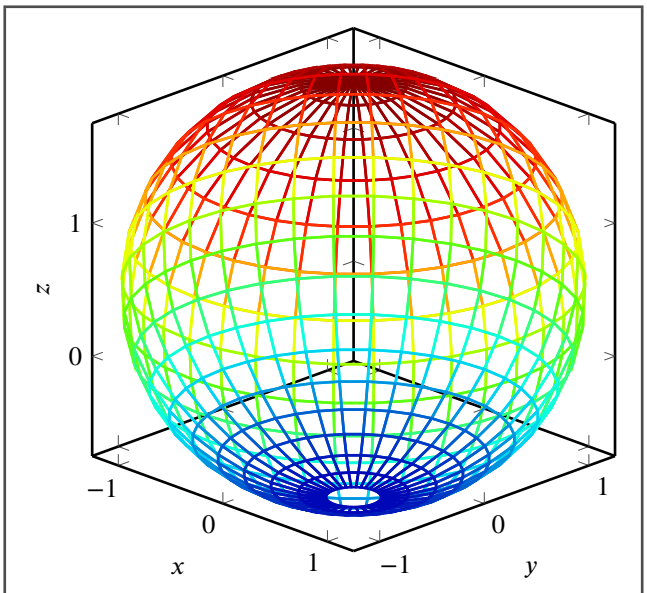
7.5 Symbol Sequences: common/math/graphics/symseq



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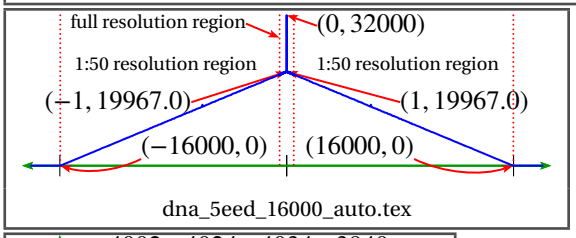

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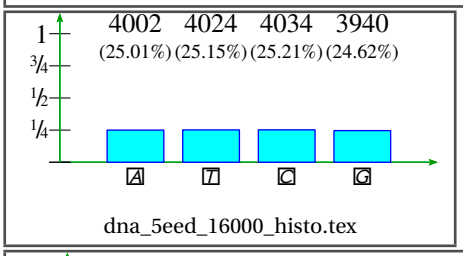

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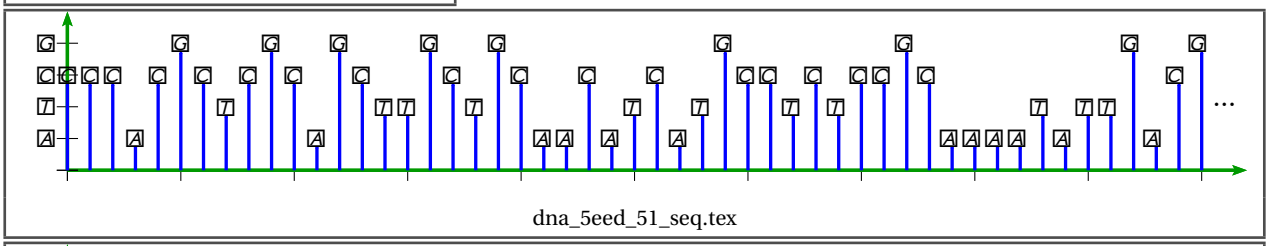

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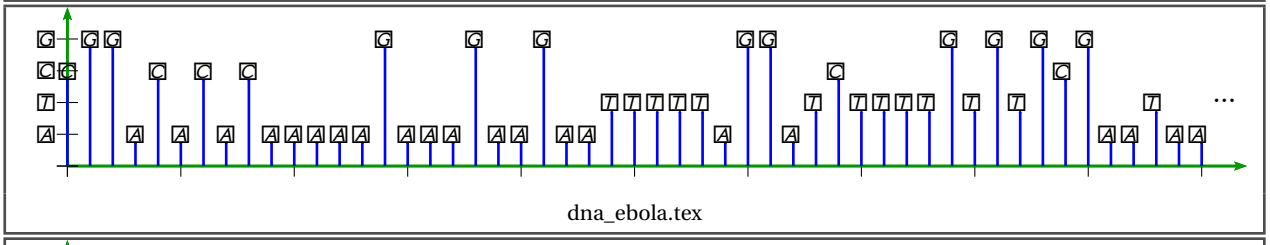

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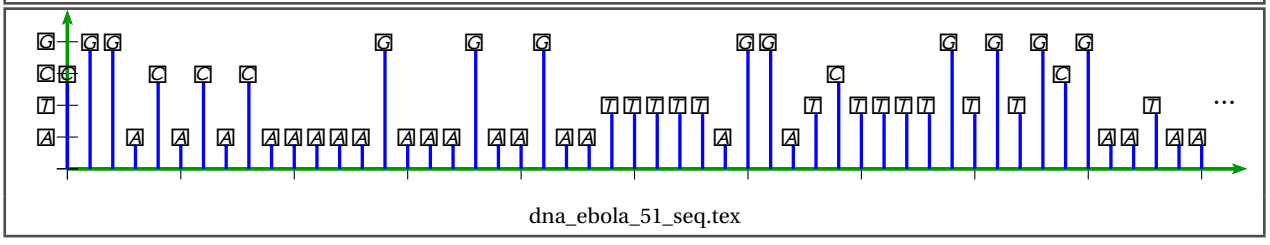

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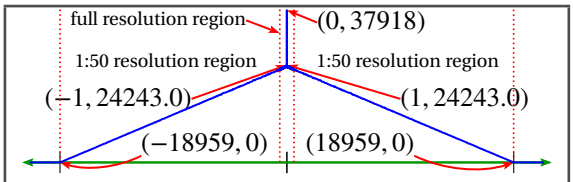

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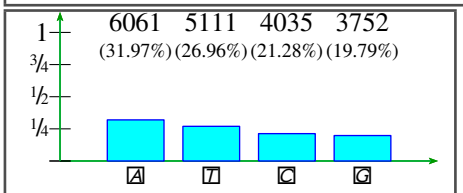

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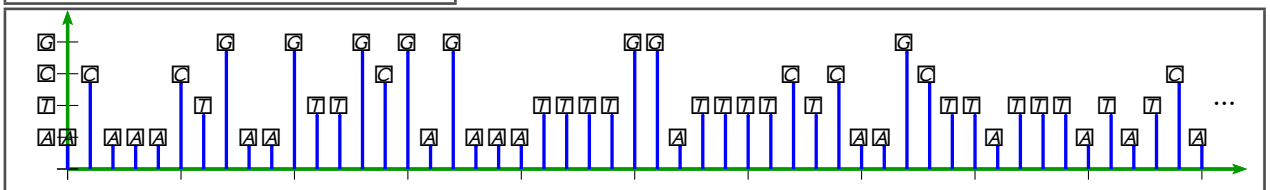
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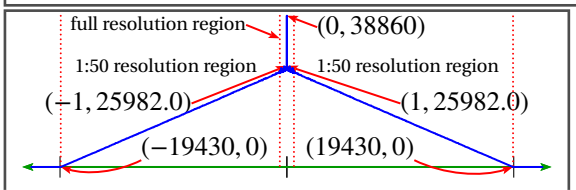

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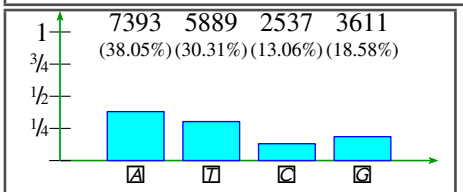

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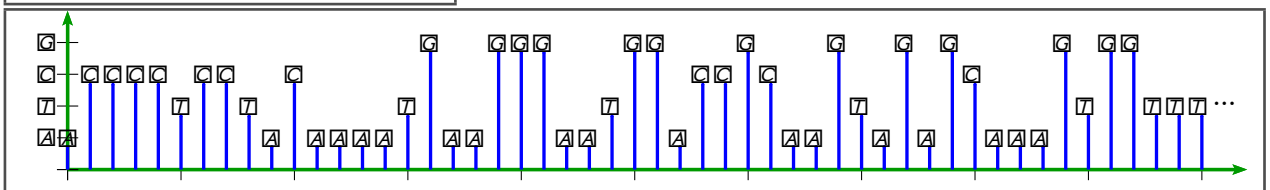
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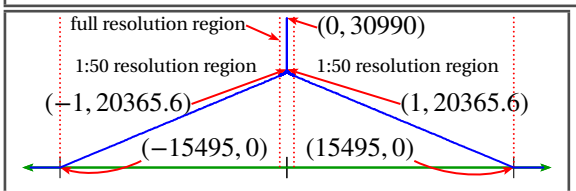

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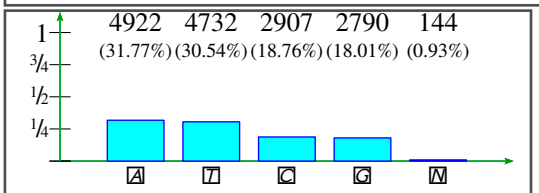

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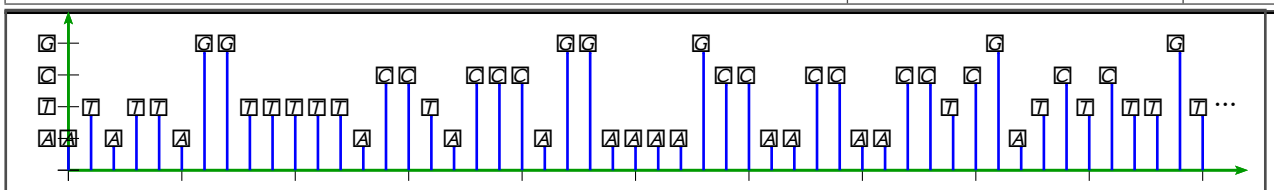

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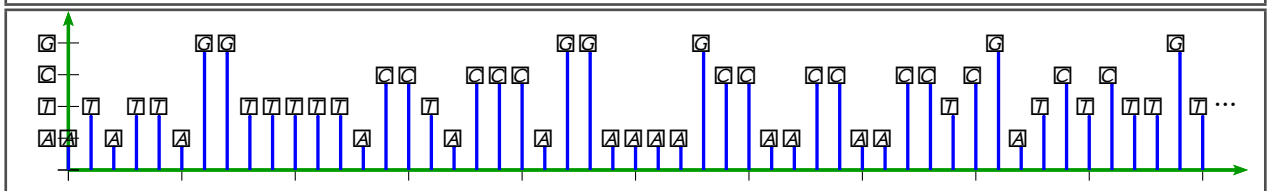

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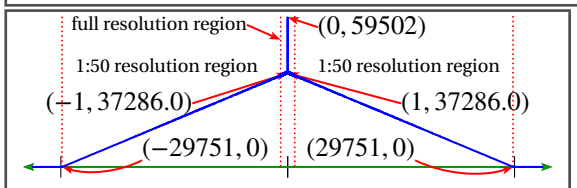

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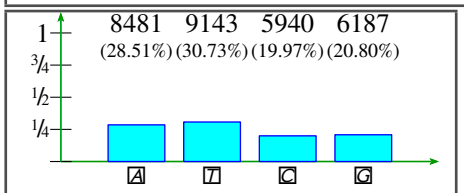

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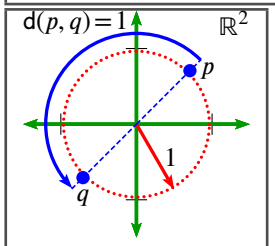

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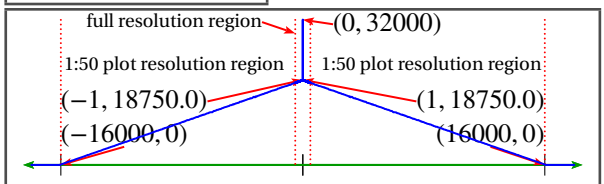

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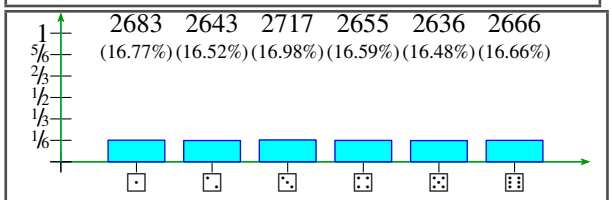

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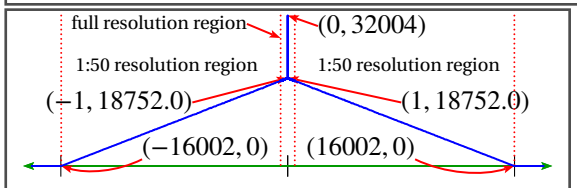

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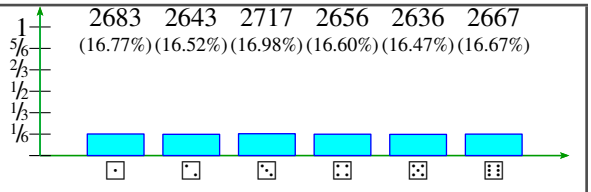

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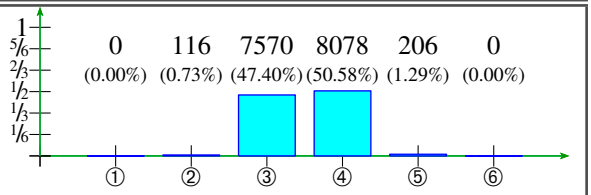

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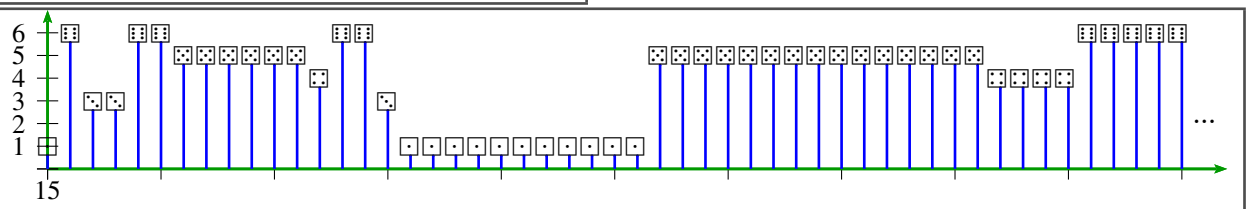

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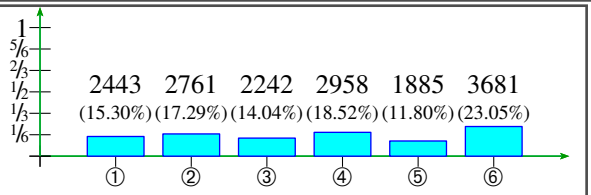

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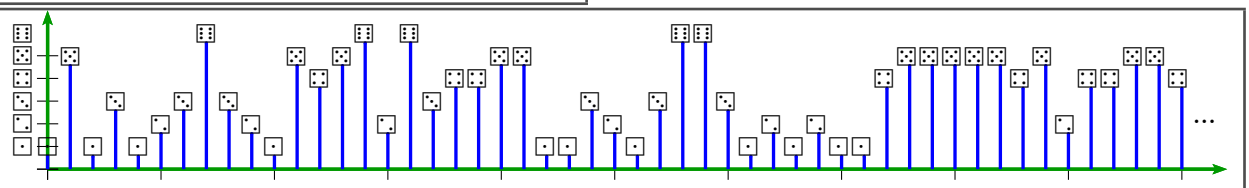

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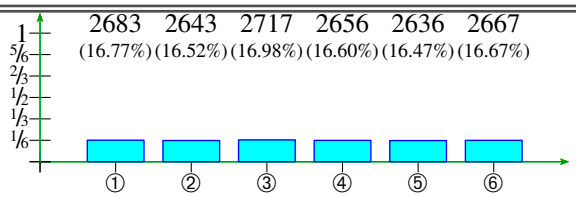

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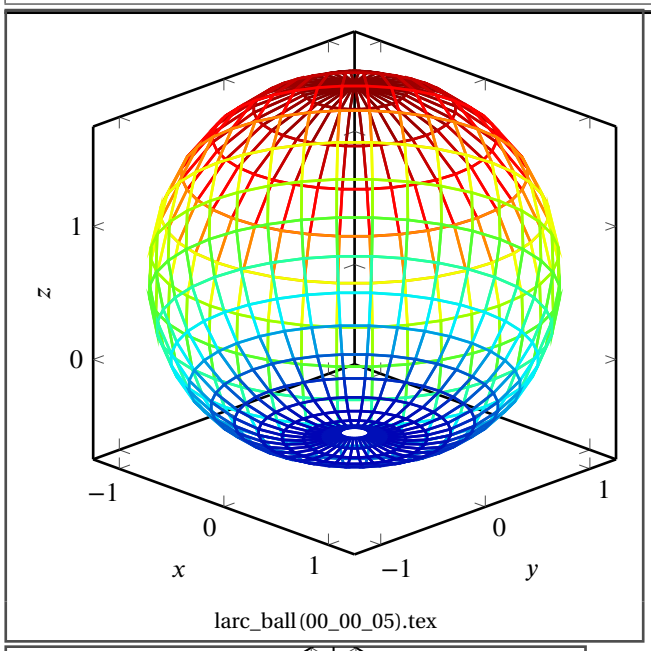

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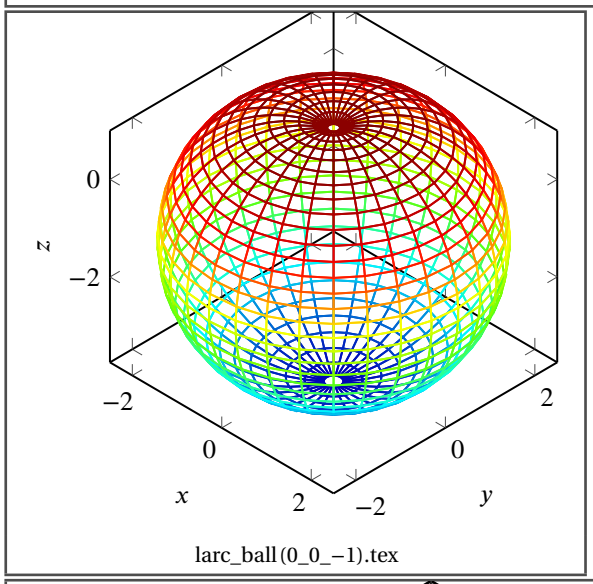

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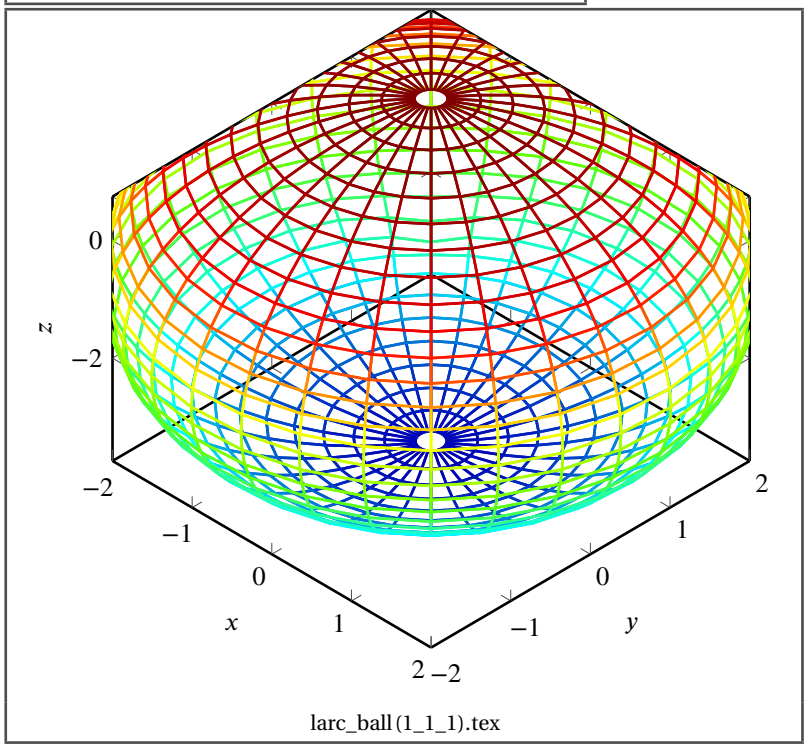

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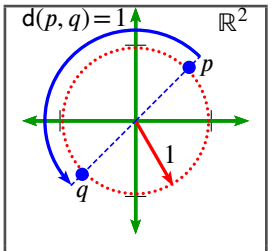

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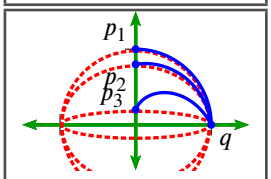

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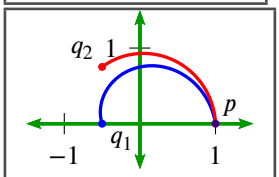

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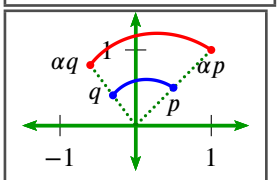

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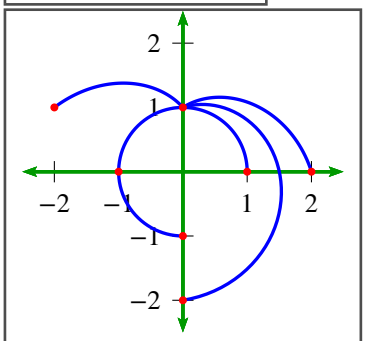

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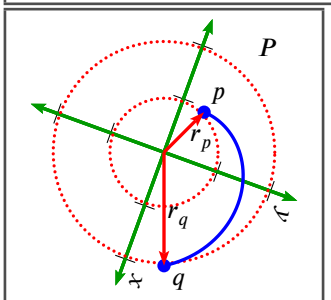

larc_pq.tex

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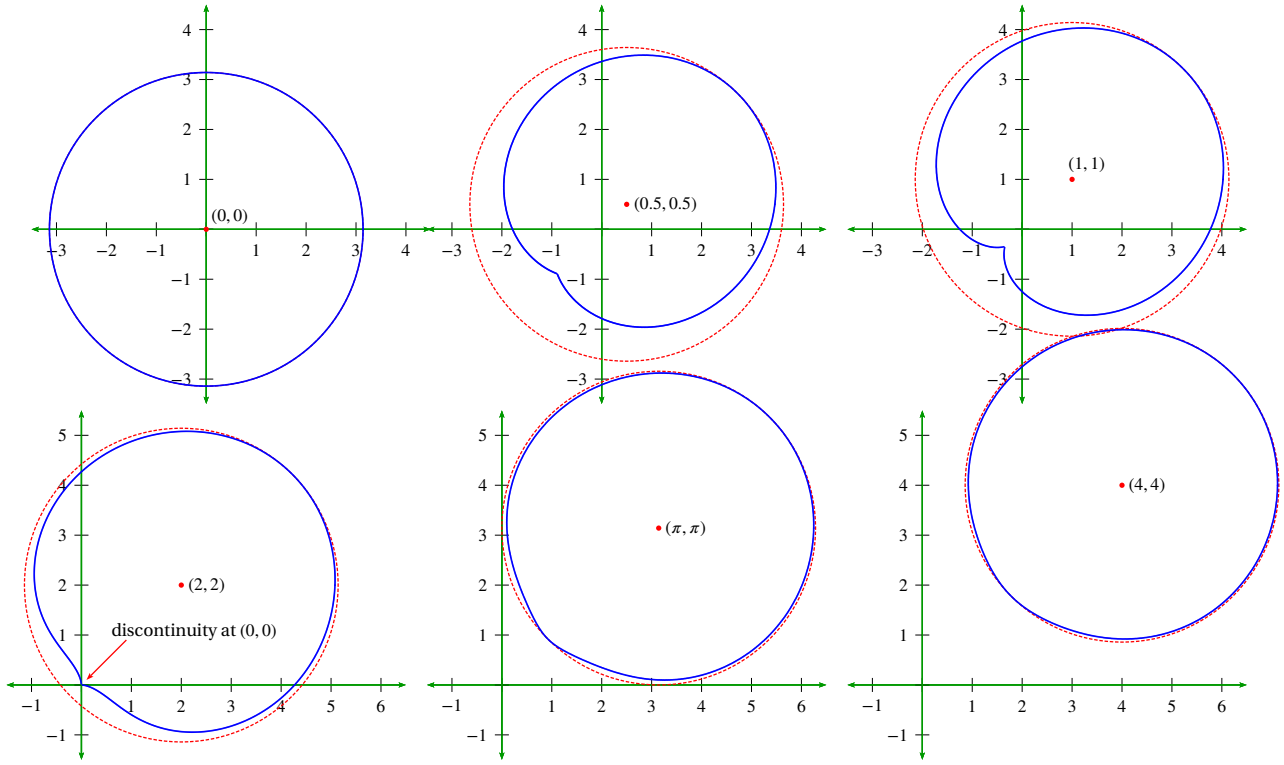

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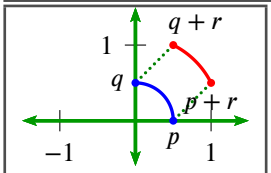

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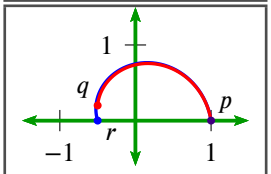

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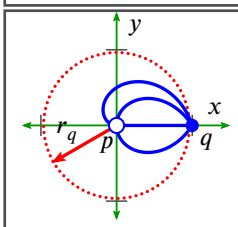

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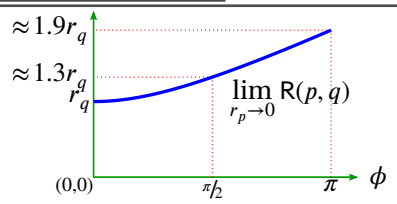

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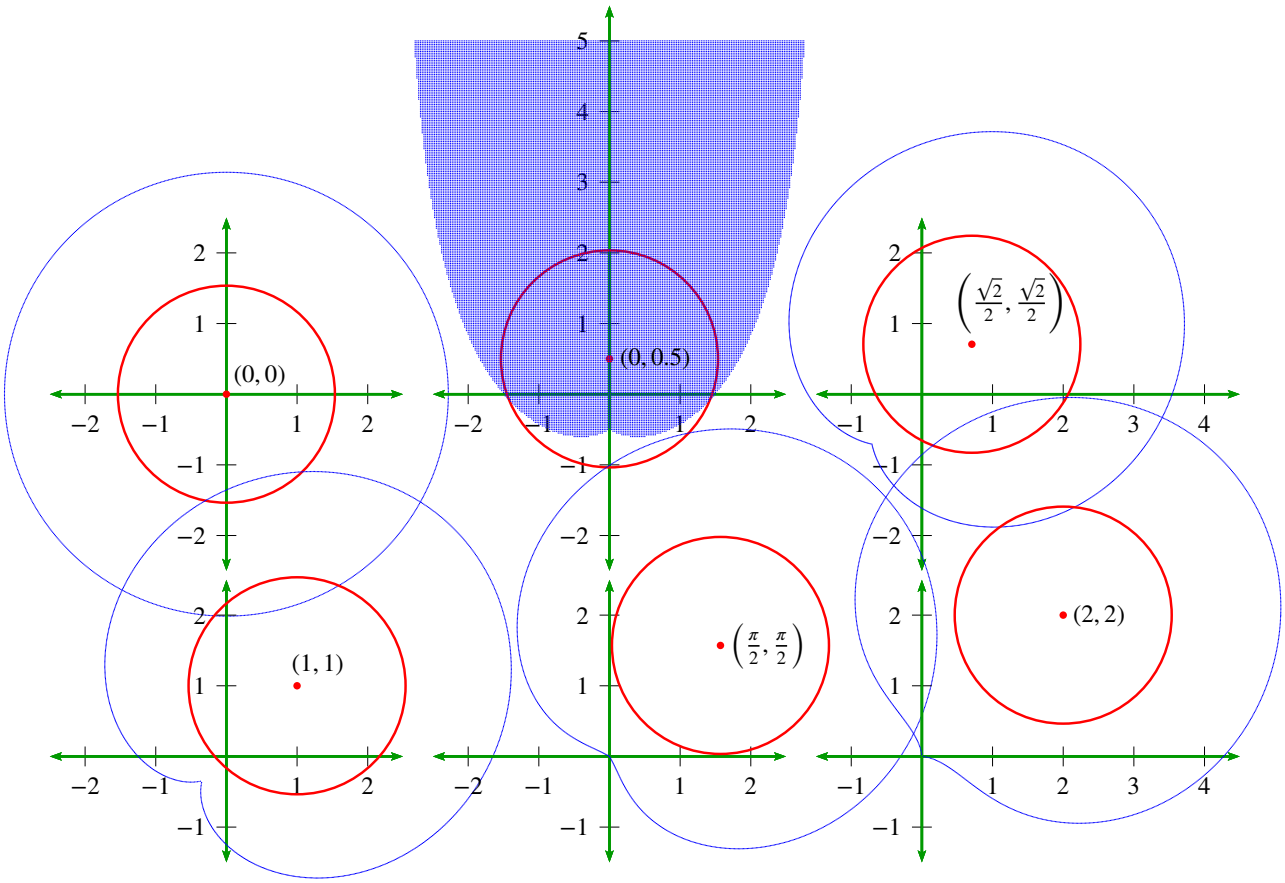

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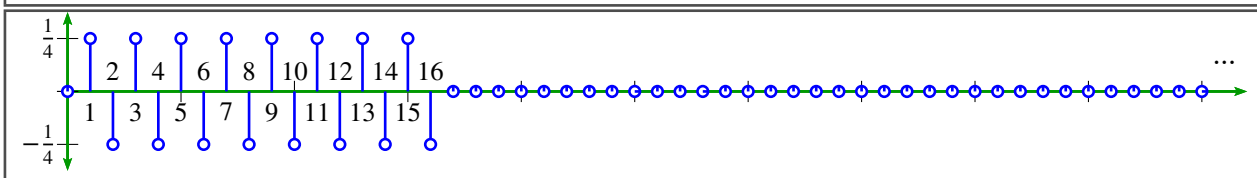

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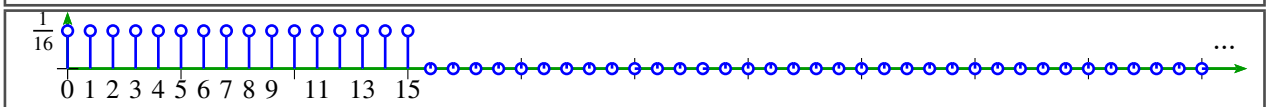

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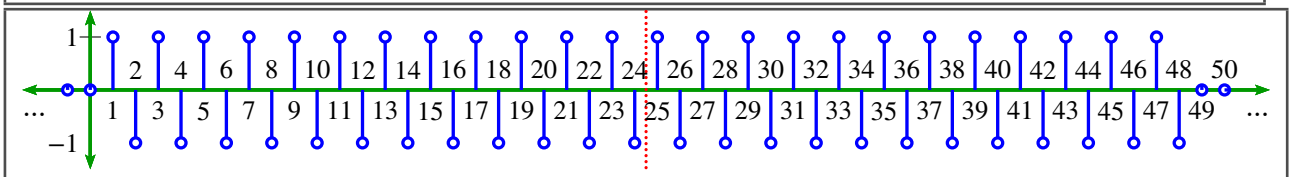

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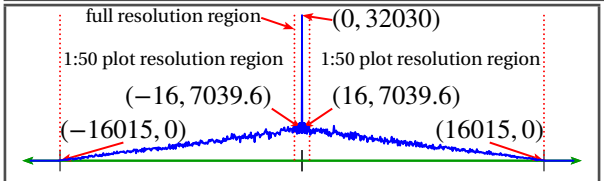

rdie_5eed_16000_16ones_auto.tex

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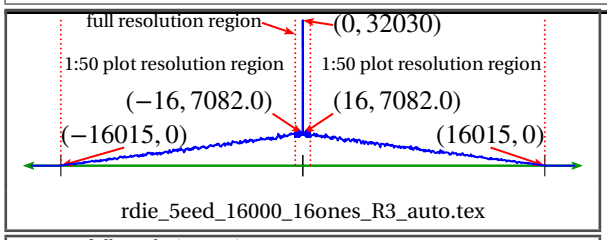

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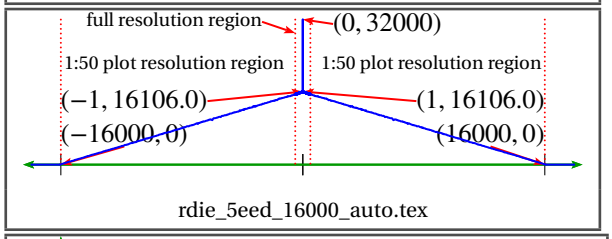

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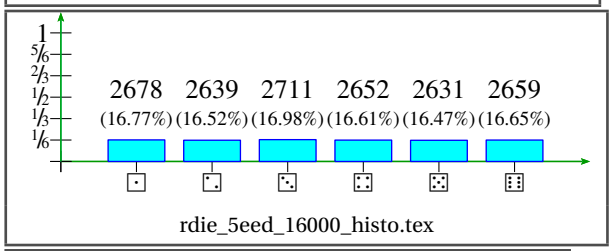

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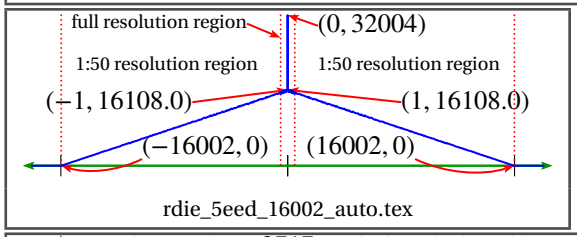

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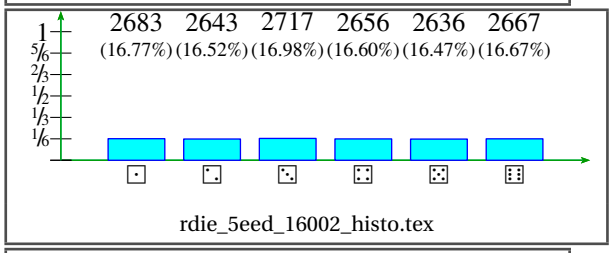

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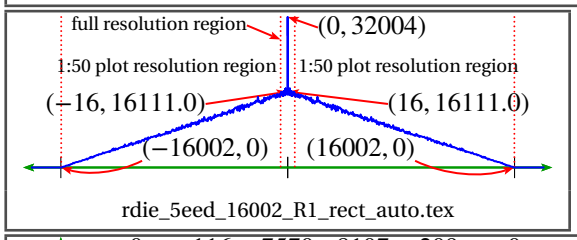

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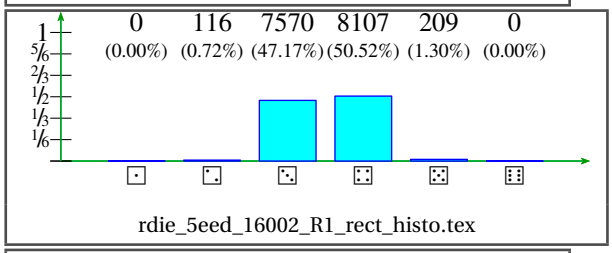

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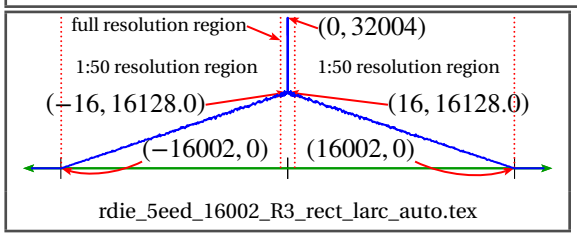

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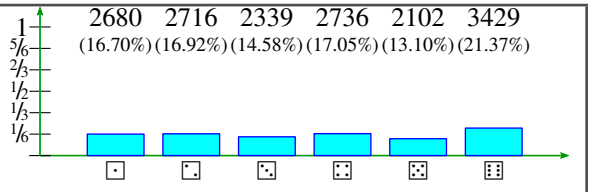

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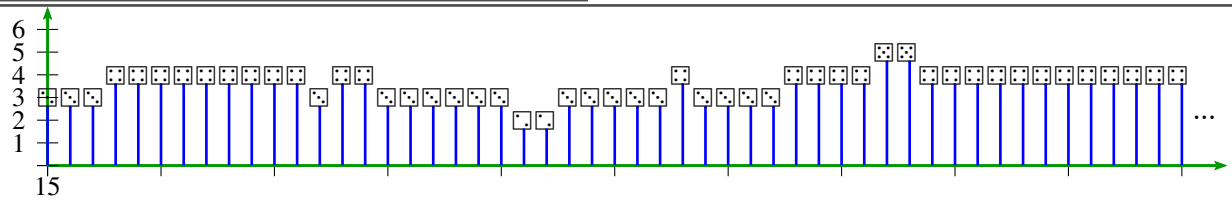

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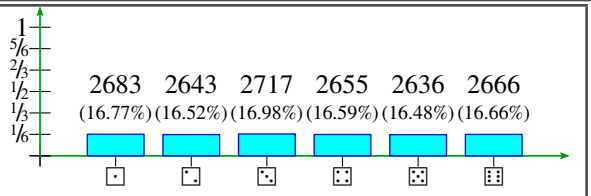

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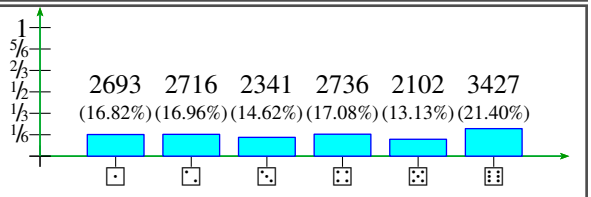

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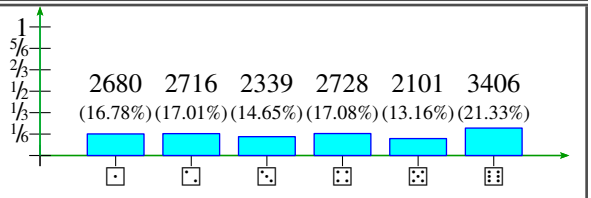

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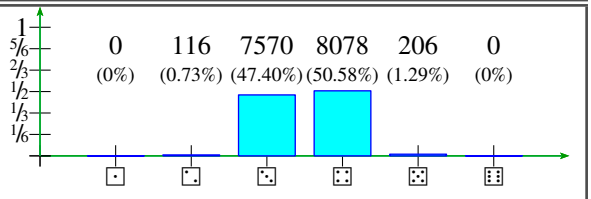

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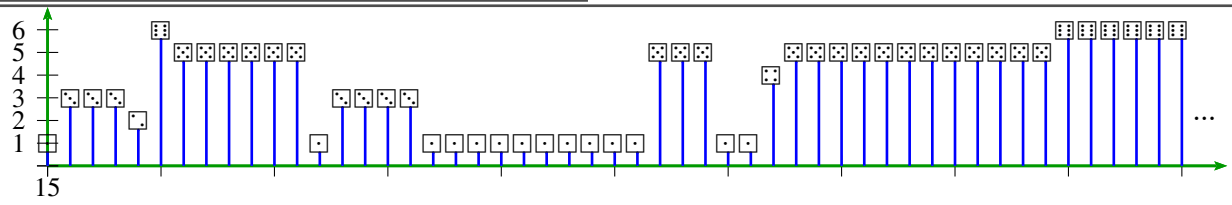

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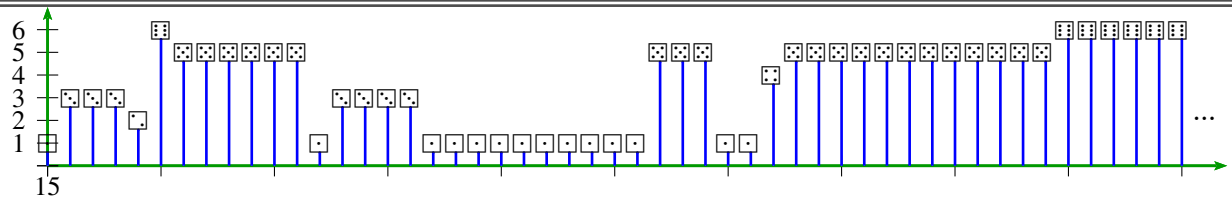

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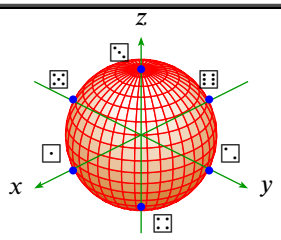

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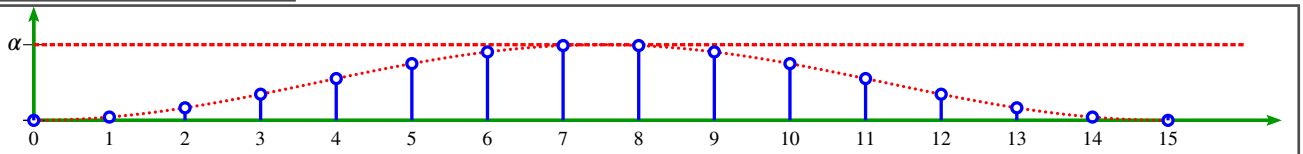

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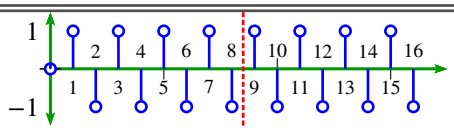

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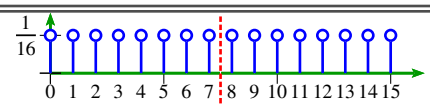

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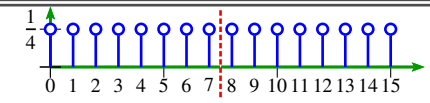

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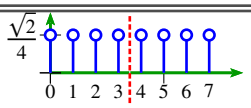

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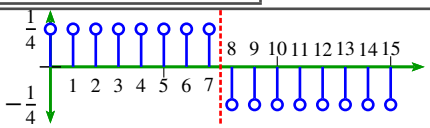

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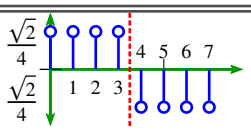

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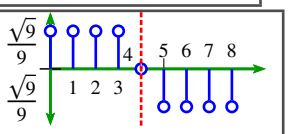

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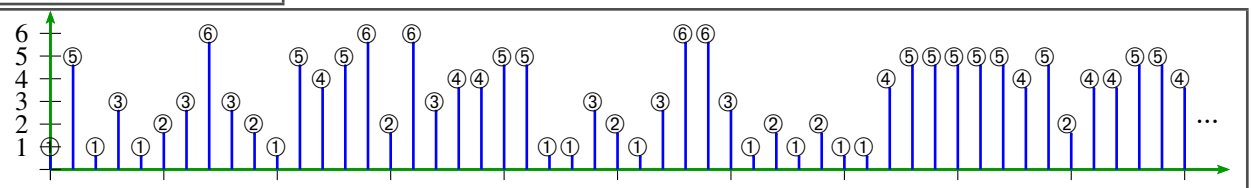

spinner_5eed.tex

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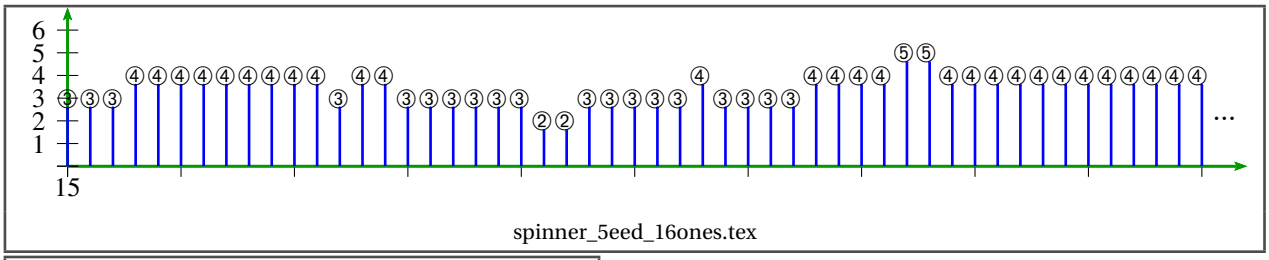

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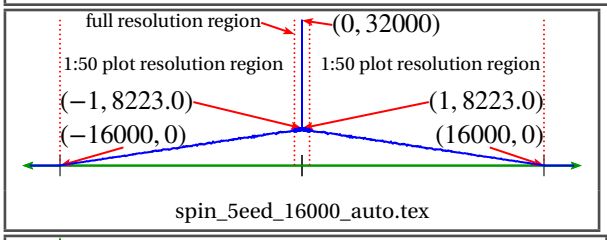

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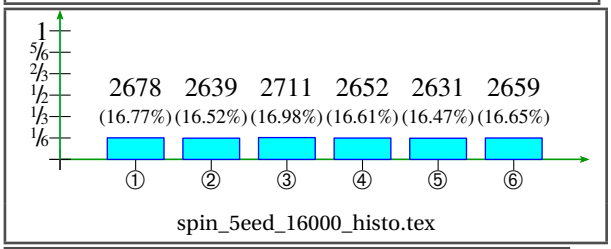

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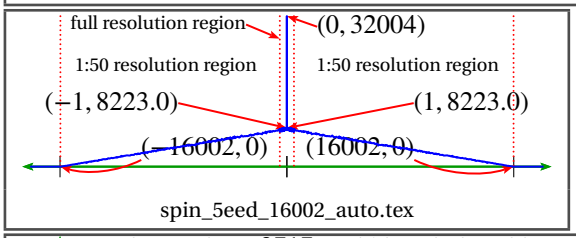

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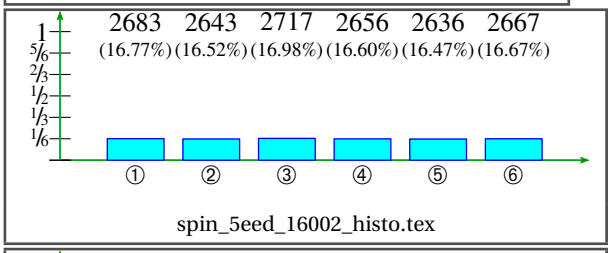

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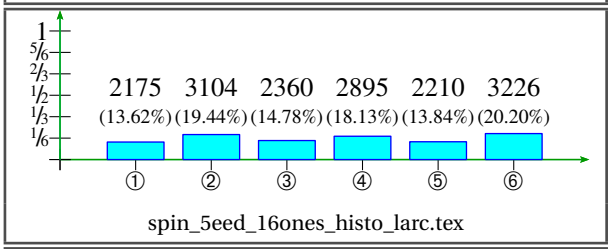

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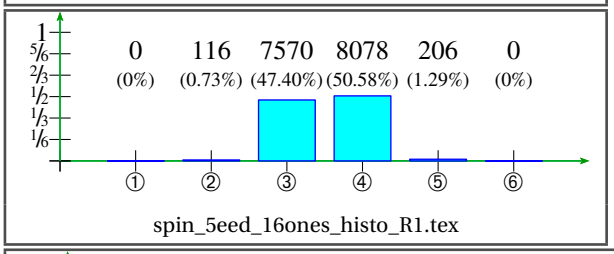

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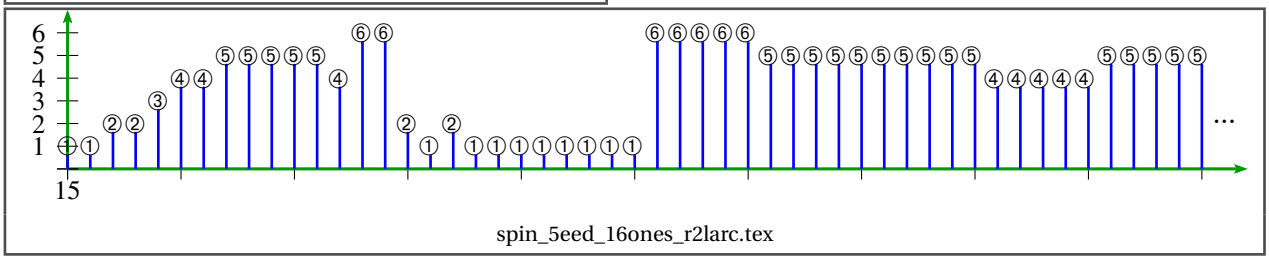

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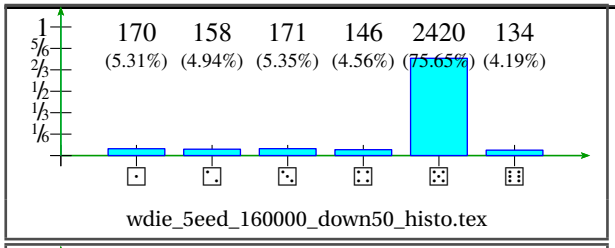

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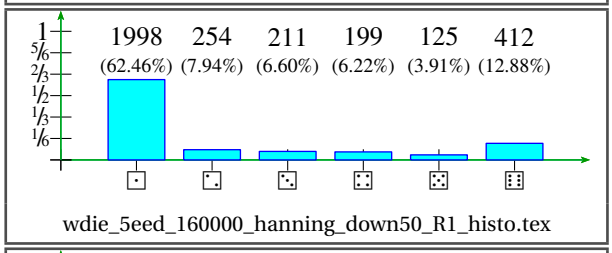

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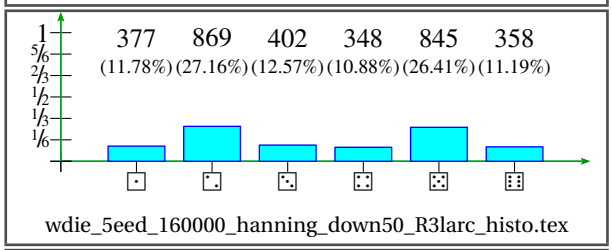

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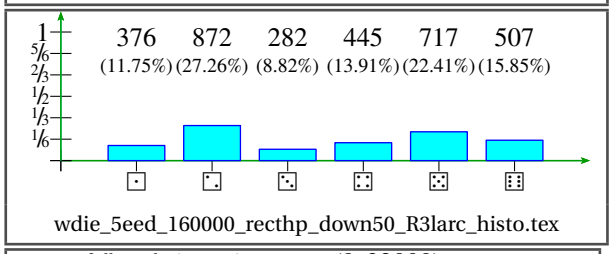

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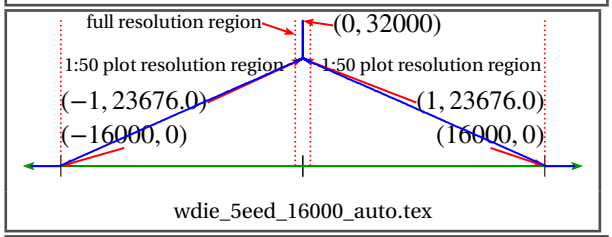

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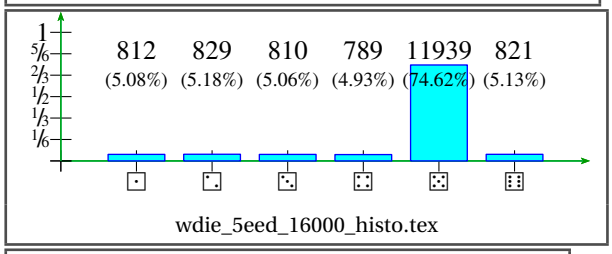

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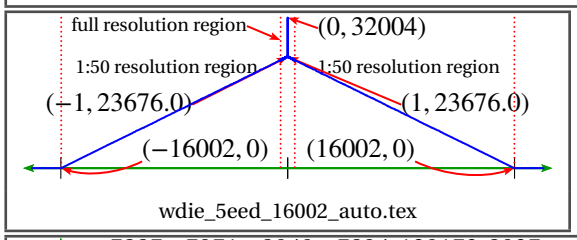

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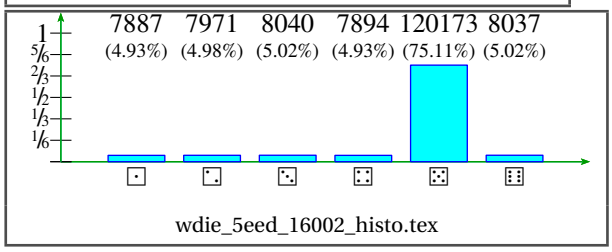

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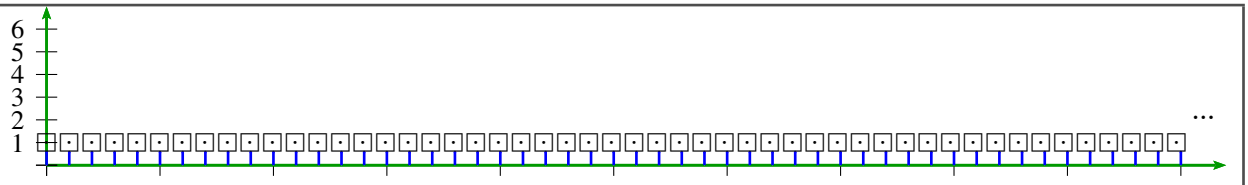

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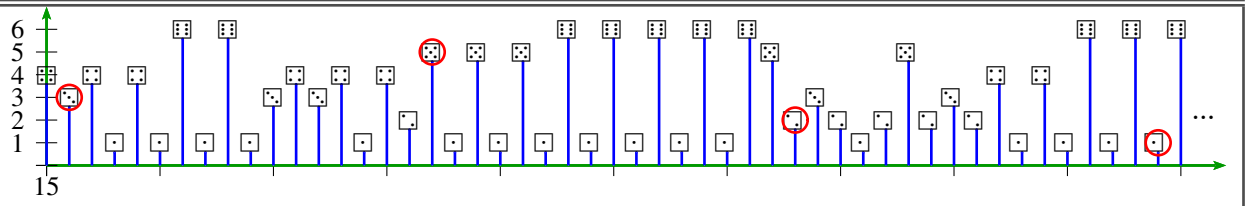

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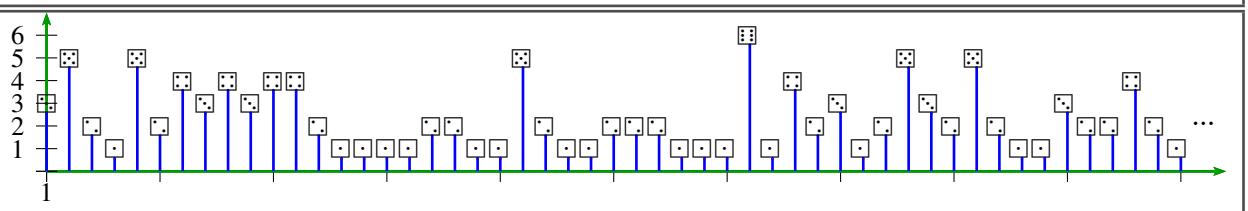

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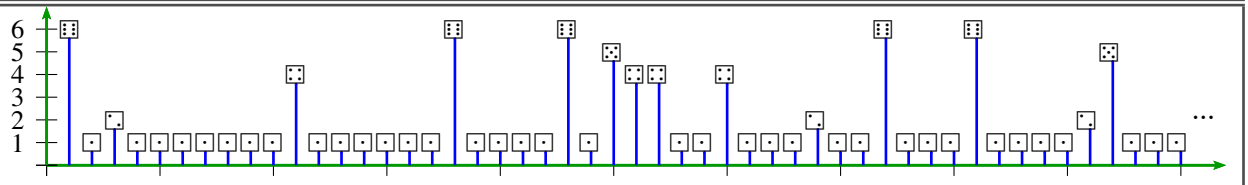

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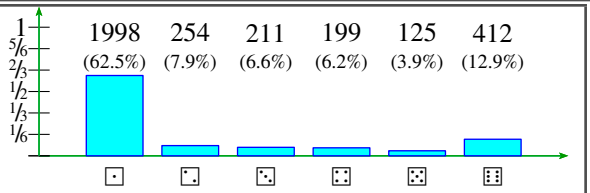

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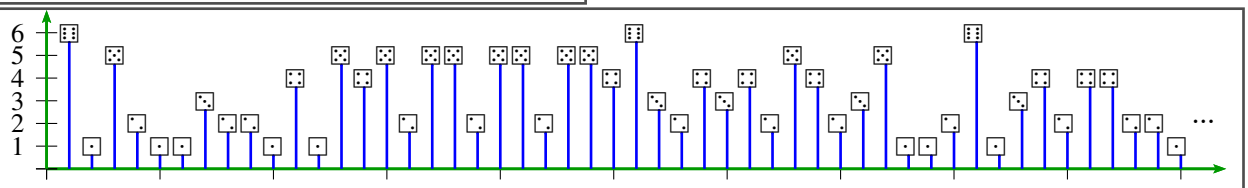

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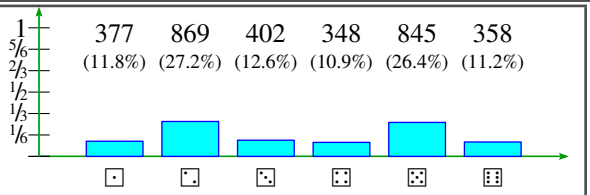

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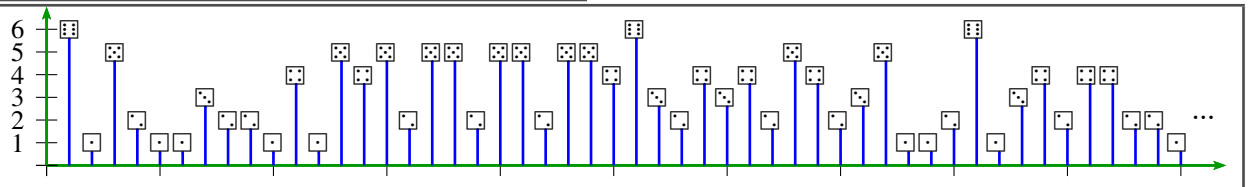

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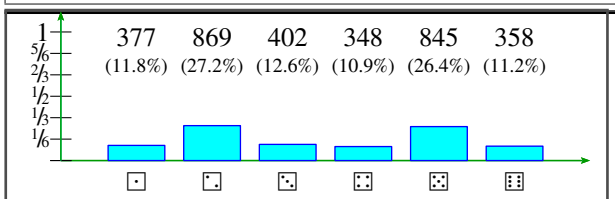

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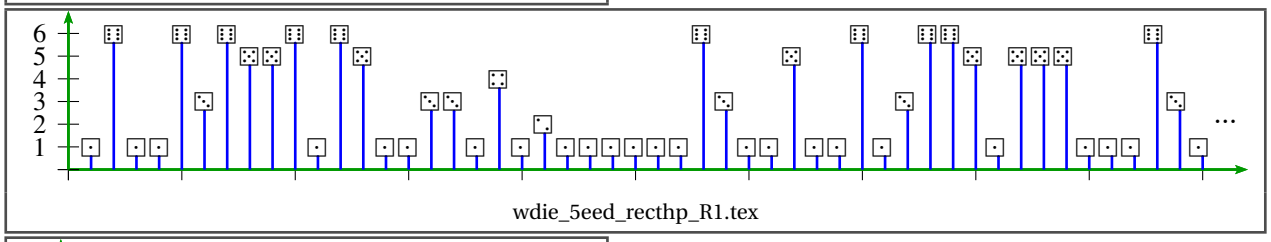

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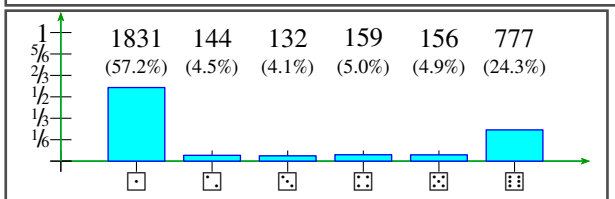

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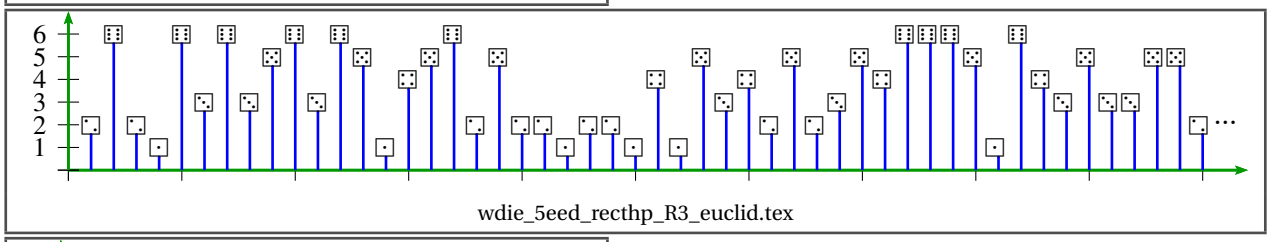

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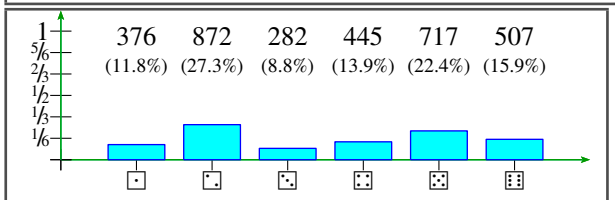

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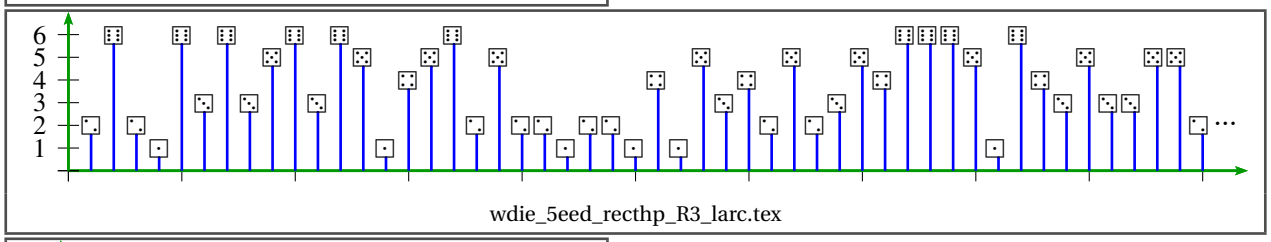

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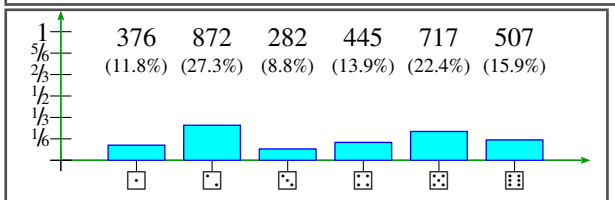

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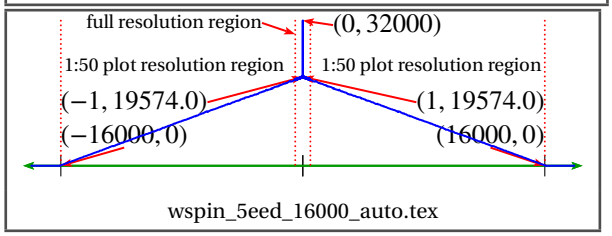

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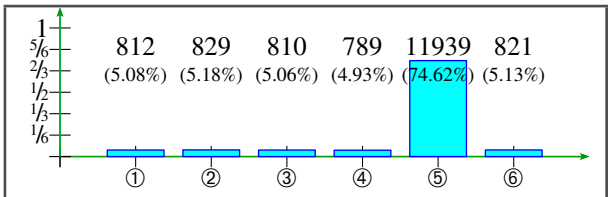

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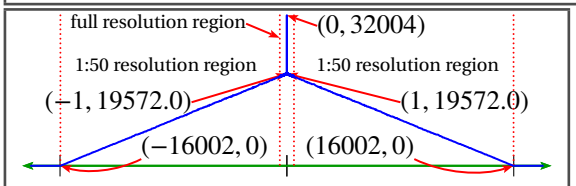

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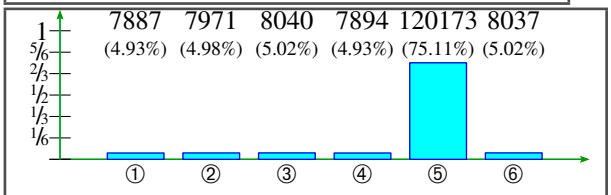

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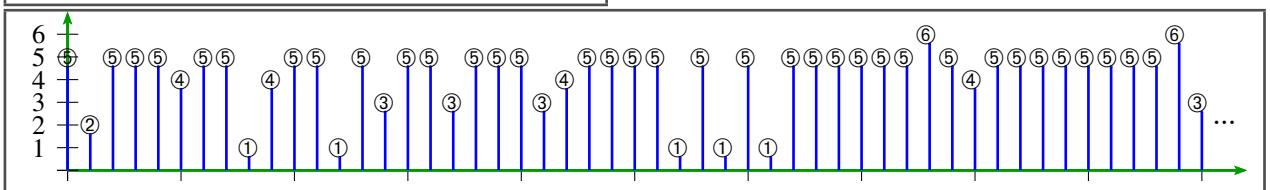

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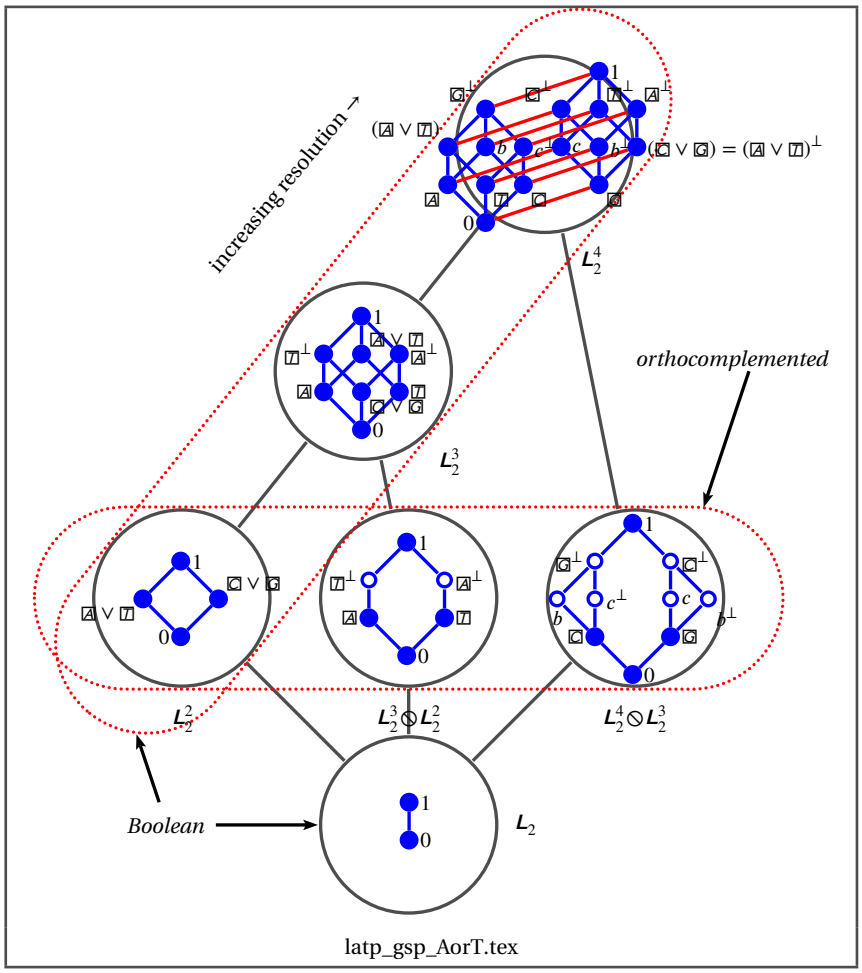
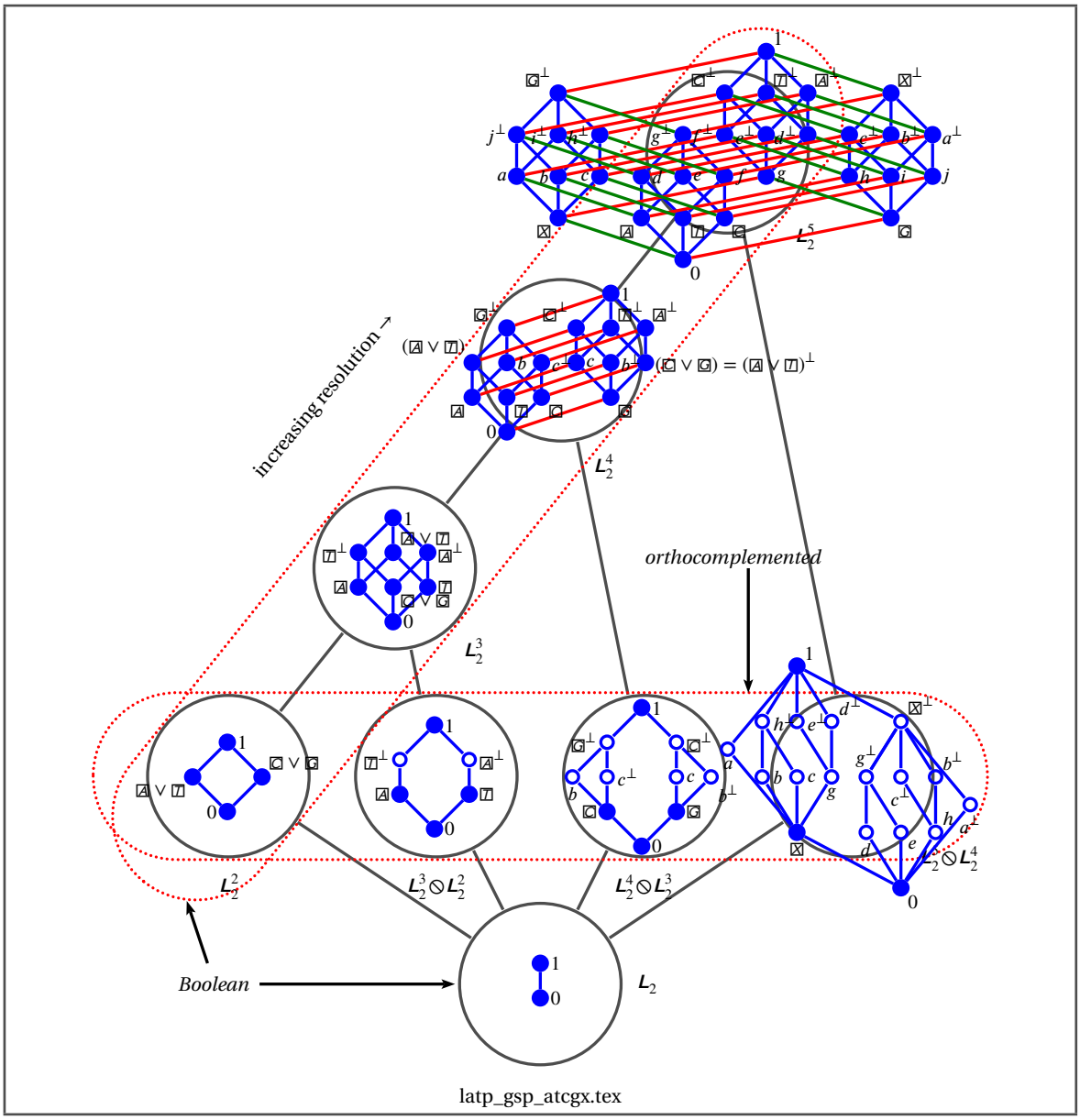
7.6 GSP: common/math/graphics/gsp





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