

	homework	type: colab or handwritten	similar exercise					
1	ex.2.1.2.b2c	handwritten	ex.2.1.2.a	ex.2.1.2.a PDF solution ex.2.1.2.a colab helper	https://langou.github.io/4650/2.1/exercise_ex_2_1_02_a2c_sauer3/exercise_ex_2_1_02_a_sauer3.pdf https://colab.research.google.com/drive/15nTh989L747L9p3OHsf6JvBSG72ghGPU			
2	ex.2.1.6	handwritten	ex.2.1.7	ex.2.1.7 PDF solution	https://langou.github.io/4650/2.1/exercise_ex_2_1_07_sauer3/exercise_ex_2_1_07_sauer3_sol_langou.pdf			
3	ex.2.1.8	handwritten	ex.2.1.5	ex.2.1.7 colab helper ex.2.1.5 PDF solution	https://colab.research.google.com/drive/1XR1Czryz1w0nN5sL8jgzytDjV_NNUYI https://langou.github.io/4650/2.1/exercise_ex_2_1_05_sauer3/exercise_ex_2_1_05_sauer3_sol_langou.pdf			
4	ex.2.2.2.b2c	handwritten	ex.2.2.2.a	ex.2.2.2.a PDF solution	https://langou.github.io/4650/2.2/exercise_ex_2_2_02_a_sauer3/exercise_ex_2_2_02_a_sauer3_sol_langou.pdf			
5	ex.2.2.4.b	handwritten	ex.2.2.4.a	ex.2.2.2.a colab helper ex.2.2.4.a PDF solution ex.2.2.4.a colab helper addtl. example 2.2.1 addtl. example 2.2.1 ex.2.2.1 ex.2.2.3	https://colab.research.google.com/drive/1Av8Vn_gwXXKtLulKxGETXHEuK_ER_IdL https://langou.github.io/4650/2.2/exercise_ex_2_2_04_a_sauer3/exercise_ex_2_2_04_a_sauer3_sol_langou.pdf https://colab.research.google.com/drive/1YgoHxLDmVqVcQf22NcB4OX17sSTPS4tL https://media.pearsoncmg.com/aw/aw_sauer_num_analysis_3/addexamples/addex_2_2.html https://mediaplayer.pearsoncmg.com/assets/sauer_na3e_ve2_2 https://media.pearsoncmg.com/aw/aw_sauer_num_analysis_3/solutions/sol_2_2.html https://media.pearsoncmg.com/aw/aw_sauer_num_analysis_3/solutions/sol_2_2.html			
6	ex.2.2.6	handwritten	ex.2.2.7	ex.2.2.7 PDF solution	https://langou.github.io/4650/2.2/exercise_ex_2_2_07_sauer3/exercise_ex_2_2_07_sauer3_sol_langou.pdf			
7	ex.2.2.8	handwritten	addtl. example 2.2.2	ex.2.2.7 colab helper see Sauer's solutions	https://colab.research.google.com/drive/13nZp6pUWQOEYlGcnbp8qZUm24686dD7d https://media.pearsoncmg.com/aw/aw_sauer_num_analysis_3/addexamples/addex_2_2.html			
8	cp.2.2.1.b2c	colab	cp.2.2.1.a	cp.2.2.1.a colab solution	https://colab.research.google.com/drive/1Av8Vn_gwXXKtLulKxGETXHEuK_ER_IdL			
9	cp.2.2.2.b	colab	cp.2.2.2.a	cp.2.2.1.a PDF helper cp.2.2.2.a colab solution cp.2.2.2.a PDF helper	https://langou.github.io/4650/2.2/exercise_cp_2_2_01_a_sauer3/exercise_cp_2_2_01_a_sauer3_sol_langou.pdf https://colab.research.google.com/drive/1YgoHxLDmVqVcQf22NcB4OX17sSTPS4tL https://langou.github.io/4650/2.2/exercise_cp_2_2_02_a_sauer3/exercise_cp_2_2_02_a_sauer3_sol_langou.pdf			
10	ex.2.3.2.b2c	colab	ex.2.3.2.a	ex.2.3.2.a PDF solution ex.2.3.2.a colab helper	https://langou.github.io/4650/2.3/exercise_ex_2_3_02_a_sauer3/exercise_ex_2_3_02_a_sauer3_sol_langou.pdf https://colab.research.google.com/drive/14vOZ0yhkon5EBVUPjRIILRaC-P8Ktfi			
11	ex.2.3.6	colab	ex.2.3.5	ex.2.3.5 colab solution ex.2.3.5 PDF helper	https://colab.research.google.com/drive/1vNFzKXfm_Fd2-BttkXhUd786M7dOTAVf https://langou.github.io/4650/2.3/exercise_ex_2_3_05_sauer3/exercise_ex_2_3_05_sauer3_sol_langou.pdf			
12	cp.2.3.4	colab	cp.2.3.1 cp.2.3.2 cp.2.3.3	cp.2.3.1 colab solution cp.2.3.1 PDF helper cp.2.3.2 colab solution cp.2.3.3 colab solution cp.2.3.3 PDF helper	https://colab.research.google.com/drive/1YjBvnQZNZYyWpx5IR5p0M9As0esFe4j https://langou.github.io/4650/2.3/exercise_cp_2_3_01_sauer3/exercise_cp_2_3_01_sauer3_sol_langou.pdf https://colab.research.google.com/drive/1NM_YOeEMuy40D9fmMhIVD04CTgrNmVoN https://colab.research.google.com/drive/1qPbZqHhLwn8E0HQODdnl_NWOv9-bSkLp https://langou.github.io/4650/2.3/exercise_cp_2_3_03_sauer3/exercise_cp_2_3_03_sauer3_sol_langou.pdf			
13	ex.2.4.2.c2d	handwritten	ex.2.4.2.a ex.2.4.2.b	ex.2.4.2.a PDF solution ex.2.4.2.a colab helper ex.2.4.2.b PDF solution ex.2.4.2.b colab helper	https://langou.github.io/4650/2.4/exercise_ex_2_4_02_a2b_sauer3/exercise_ex_2_4_02_a_sauer3_sol_langou.pdf https://colab.research.google.com/drive/1sOhfk0aQ4j6b1sVMLZ_YVFi_S-mX84h3 https://langou.github.io/4650/2.4/exercise_ex_2_4_02_a2b_sauer3/exercise_ex_2_4_02_b_sauer3_sol_langou.pdf https://colab.research.google.com/drive/1PYLSAHM8TzdFGD89CGAVnRFilBaUJWWf			
14	ex.2.4.4	handwritten	ex.2.4.3	ex.2.4.3 PDF solution	https://langou.github.io/4650/2.4/exercise_ex_2_4_03_sauer3/exercise_ex_2_4_03_sauer3_sol_langou.pdf			
15	ex.2.7.2.b	handwritten	ex.2.7.2.a	ex.2.7.2.a PDF solution ex.2.7.2.b colab helper	https://langou.github.io/4650/2.7/exercise_ex_2_7_02_a_sauer3/exercise_ex_2_7_02_a_sauer3_sol_langou.pdf https://colab.research.google.com/drive/18eWQOvhLWWa_V_dDK7pgV8oTgiGXRO9j			
16	cp.2.7.1.b2c	colab	cp.2.7.1.a	cp.2.7.1.a colab solution	https://colab.research.google.com/drive/1PRQ6gpiXodEJBQhQRzifdhheXmzb7ehJ			
17	cp.2.7.4	colab	getting started	cp.2.7.4 colab getting started	https://colab.research.google.com/drive/1X00e9qXrdYoQUsNfyM_-sSY-08K6dA0d			
18	cp.2.7.5.b	colab	cp.2.7.5.a	cp.2.7.5.a colab solution	https://colab.research.google.com/drive/1zxXgVys2AVizDmmWcek6XD0HchHJGssY			
19	cp.2.7.7.b2c	colab	cp.2.7.7.a	cp.2.7.7.a colab solution	https://colab.research.google.com/drive/1bYDN8HNI6ryITQxYkWXteakZ6bctiFno			
20	cp.2.7.8.b2c	colab	cp.2.7.8.a	cp.2.7.8.a colab solution	https://colab.research.google.com/drive/13Sw49PhXc9QhWnPTMMh7Fe86SE4sxKS_			