/* Geogebra to Asymptote conversion, documentation at artofproblemsolving.com/Wiki, go to User:Azjps/geogebra */ import graph; size(13.1cm); real labelscalefactor = 0.5; /* changes label-to-point distance */ pen dps = linewidth(0.7) + fontsize(10); defaultpen(dps); /* default pen style */ pen dotstyle = black; /* point style */ real xmin = -2.9, xmax = 10.2, ymin = -1.5, ymax = 8.7; /* image dimensions */

Label laxis; laxis.p = fontsize(10); xaxis(xmin, xmax, Ticks(laxis, Step = 1., Size = 2, NoZero),EndArrow(6), above = true); yaxis(ymin, ymax, Ticks(laxis, Step = 1., Size = 2, NoZero),EndArrow(6), above = true); /* draws axes; NoZero hides '0' label */ /* draw figures */ real f1 (real x) return 3.0*x+2.0; draw(graph(f1,-2.89,10.19)); real f2 (real x) return 4.0*x; draw(graph(f2,-2.89,10.19)); label("(2,8)",(2.4,8.16),SE*labelscalefactor); /* dots and labels */ label("f", (-0.98,-1.4), NE * labelscalefactor); label("g", (-0.18,-1.4), NE * labelscalefactor); dot((2.,8.),dotstyle); label("A", (2.08,8.12), NE * labelscalefactor); clip((xmin,ymin)–(xmin,ymax)–(xmax,ymax)–(xmax,ymin)–cycle); /* end of picture */