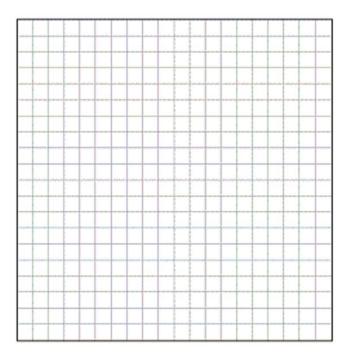
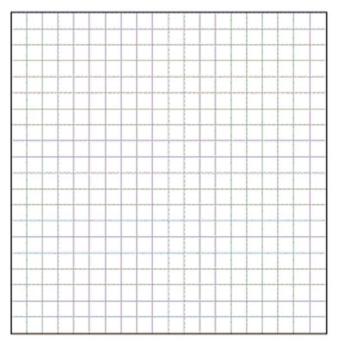
Sketch Quadratic Graphs

1. Graph the following functions, and identify key features of the graph.

a) f(x) = (x - 2)(x + 7)



b) h(x) = -3(x-2)(x+2)



Go to <u>onlinemathlearning.com</u> for more free math resources

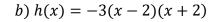
Sketch Quadratic Graphs

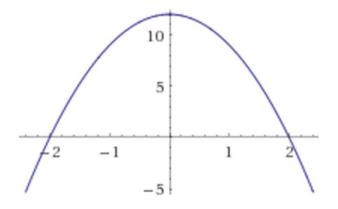
1. Graph the following functions, and identify key features of the graph.

a) f(x) = (x - 2)(x + 7)

x-intercepts (2, 0) and (-7, 0); y-intercept (0, -14); vertex at x = -2.5 (-2.5, -20.25).

end behavior: this graph opens up (as x approaches $\pm \infty$, y approaches ∞).





vertex (0,12); axis of symmetry at x = 0; y-intercept (0,12); x-intercepts (-2,0) and (2,0).

end behavior: this graph opens down (as x approaches $\pm \infty$, y approaches $-\infty$)

Go to <u>onlinemathlearning.com</u> for more free math resources