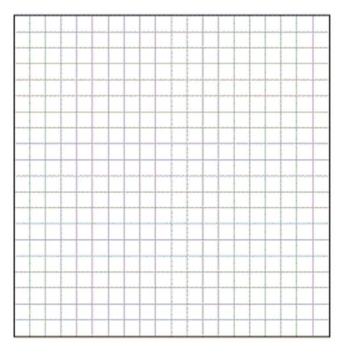
Sketch Quadratic Graphs

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

a)
$$f(x) = -(x+2)(x-5)$$

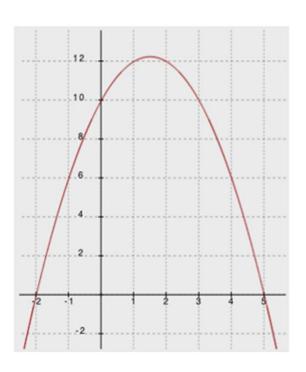
b)
$$g(x) = x^2 - 5x - 24$$



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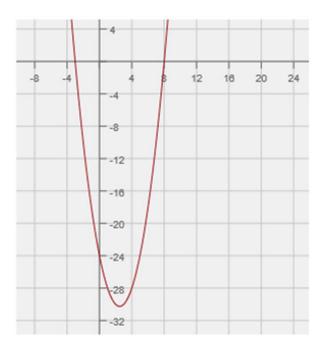
1. Graph the following functions, and identify key features of the graph.



a) f(x) = -(x+2)(x-5)

x-intercepts (-2, 0) (5, 0); vertex at x = 1.5 (1.5, 12.25); y-intercept (0, 10); end behavior: this graph opens down (as x approaches $\pm \infty$, y approaches $-\infty$)

b) $g(x) = x^2 - 5x - 24$



x-intercepts (-3, 0) (8, 0); vertex at x = 2.5 (2.5, -30.25); y-intercept (0, -24); end-behavior: this graph opens up (as x approaches $\pm \infty$, y approaches ∞)

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