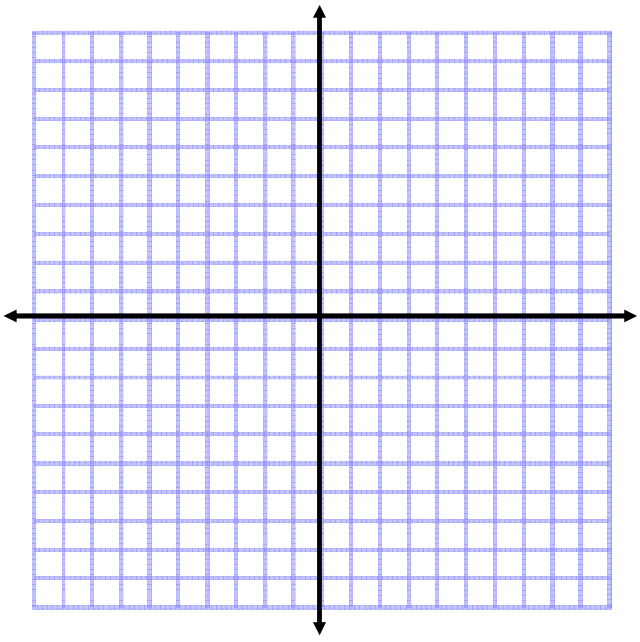
Warm Up for 5.1

1. Write the function in standard form and tell whether it opens up or down. $y = (3x + 2)(x - 5)$

2. Graph the function $y = -x^2 - 6x + 5$. Remember to use $x = -b/2a$



5.2 Graphing Quadratics in Vertex or Intercept Form

Let's make graphing easier!

Vertex Form: $y = a(x - h)^2 + k$

a still tells whether parabola opens up or down

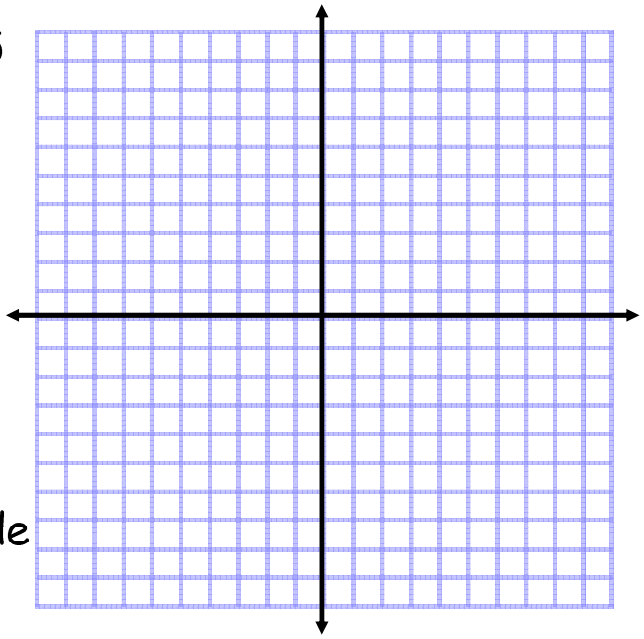
Vertex is the point (h, k) axis of symmetry is x= h

Ex. 1 Graph $y = 2(x - 3)^2 - 5$

Draw a.o.s

Plot Vertex

Plot 2 points one on each side
(suggestion: pick x=0)



Ex. 2 Graph $y = -2(x + 2)^2 + 6$