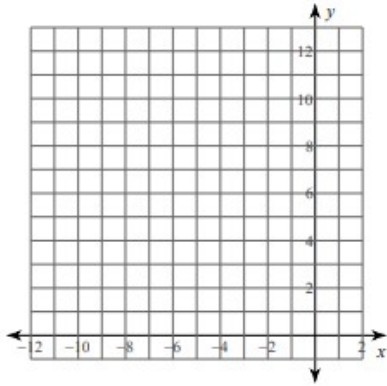
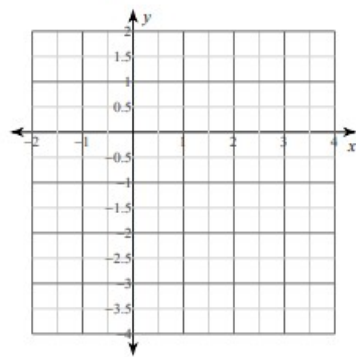


GRAPHING PARABOLAS

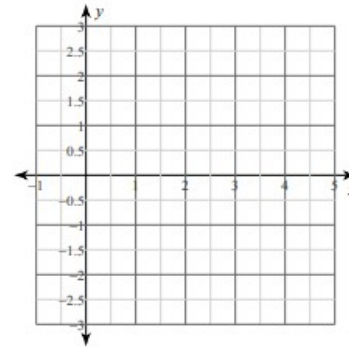
1) $y = 3x^2$



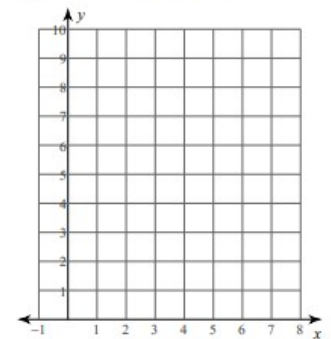
2) $y = -\frac{1}{2}x^2$



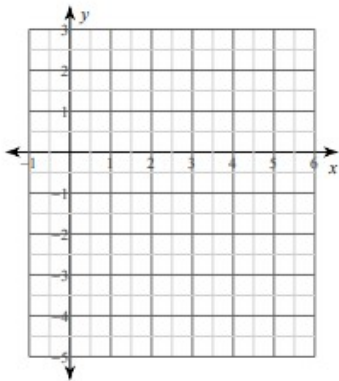
3) $y = -x^2 + 2x + 1$



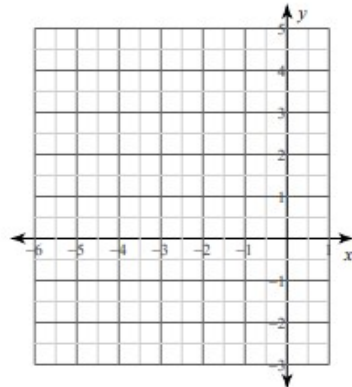
4) $y = 2x^2 - 16x + 33$



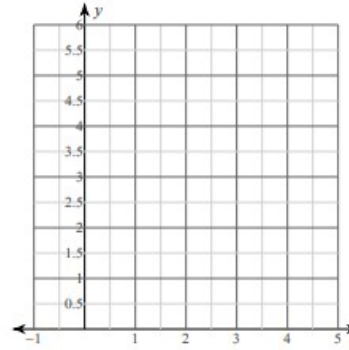
5) $y = x^2 - 8x + 13$



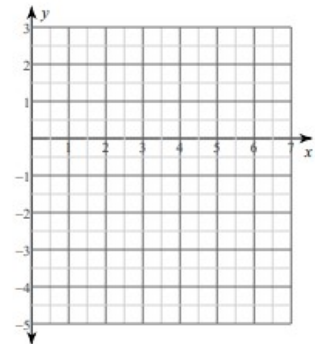
6) $y = -x^2 - 8x - 13$



7) $y = (x - 3)^2 + 1$



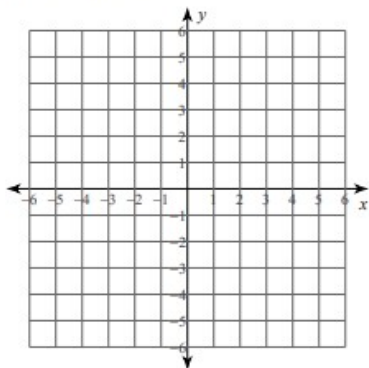
8) $y = \frac{1}{2}(x - 4)^2 - 2$



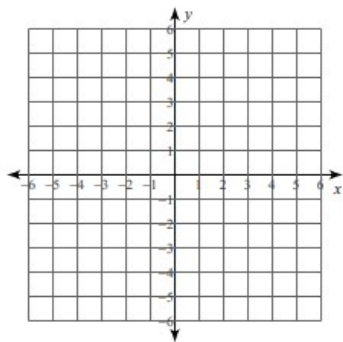
1. Identify the parameters a , h , and k
2. Identify the vertex (h, k)
3. Identify the axis of symmetry $x = h$
4. Find the slopes: a multiplied (1, 3, 5)
5. **Graph the equation**

GRAPHING THE ABSOLUTE VALUE FUNCTIONS

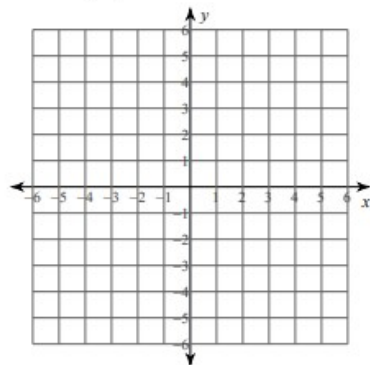
1) $y = |x - 2| - 4$



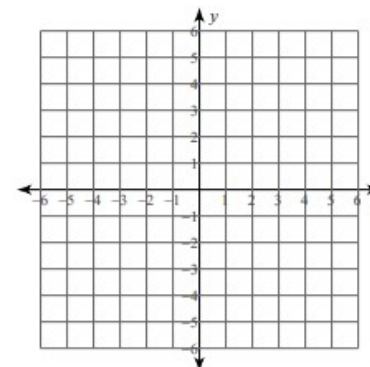
2) $y = |x + 1|$



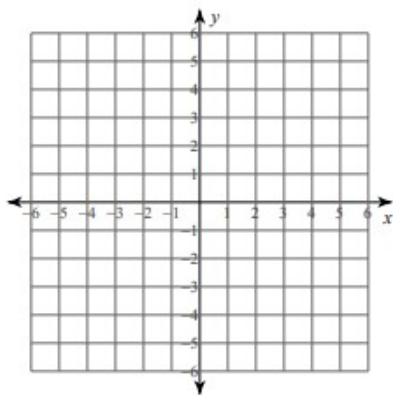
3) $y = |x| + 1$



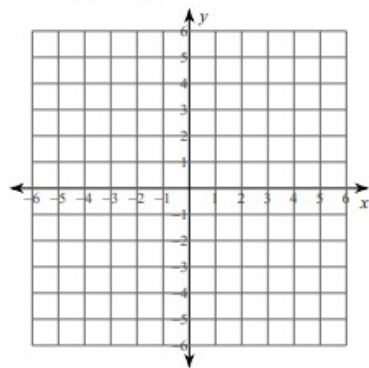
4) $y = |x| + 2$



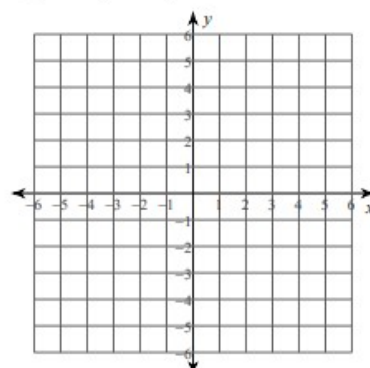
5) $y = |x + 2|$



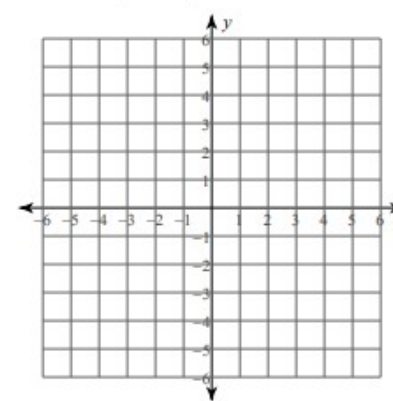
6) $y = |x + 1| + 3$



7) $y = -|x - 2| - 2$



8) $y = -|x + 1| + 4$



1. Identify the parameters a , h , and k
2. Identify the vertex (h, k)
3. Identify the axis of symmetry $x = h$
4. Find the slope: a
5. *Graph the equation*