

Graph

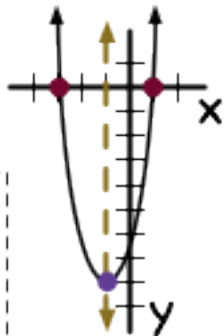
Intercept: $y = 2(x+3)(x-1)$

$$y = a(x-p)(x-q) \quad p = -3 \quad q = 1$$

Axis of Symmetry: $x = -1$

$$x = \frac{p+q}{2} = \frac{-3+1}{2} = -1$$

$$y = 2(-1+3)(-1-1) = 2(2)(-2) = -8$$



Vertex:
 $(-1, -8)$