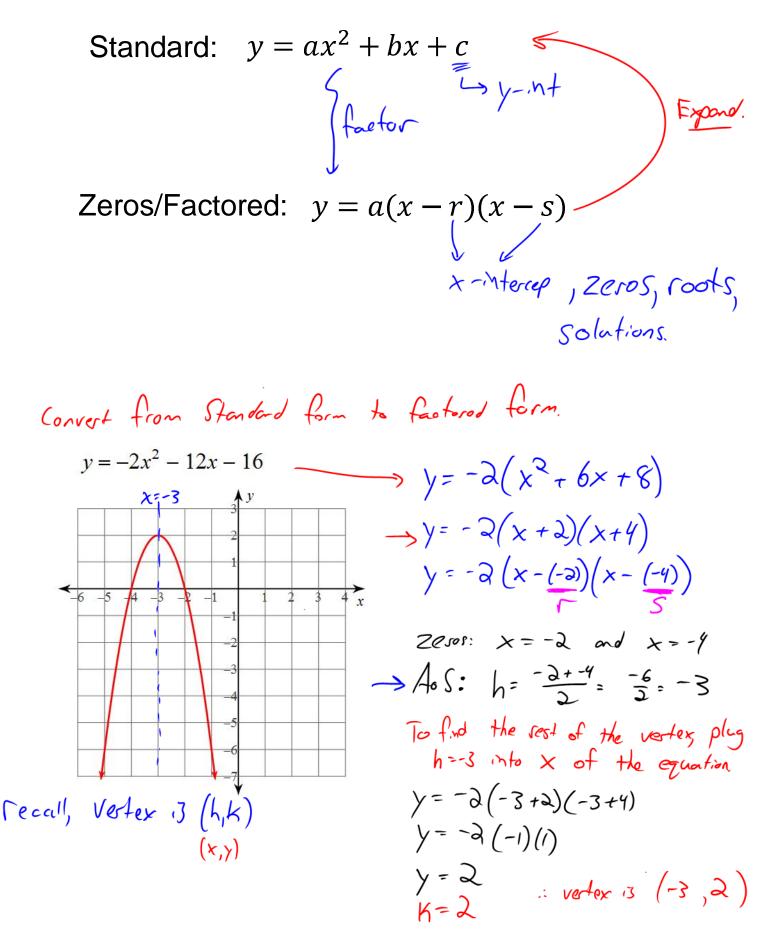
Mathematics 10D 2 – Zeros/Factored Form



Given the standard form, find the zeros then the vertex.

$$y = 3x^{2} + 15x - 18$$

$$y = 3(x^{2} + 5x - 6)$$

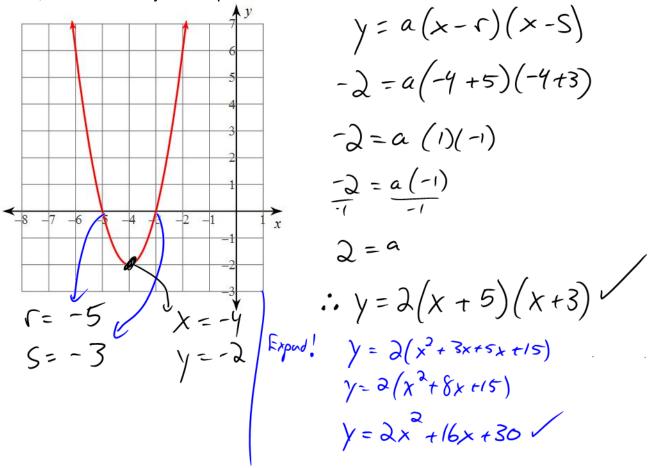
$$y = 3(x + 6)(x - 1)$$

$$z = -6 \quad x = 1$$

AoS: $h = \frac{-6 + 1}{2} = \frac{-5}{2} = -2.5$
Vertex: $k = 3(-2.5)^{2} + 15(-2.5) - 18$
 $k = 18.75 - 37.5 - 18$
 $k = -36.75$
i. the vertex is $(-2.5, -36.75)$

Given the standard form, find the zeros then the vertex.

Given the graph, state the equation of the parabola in both zeros form and standard form, then state the y-intercept.



A parabola has a zero at (3,0) and a vertex at (5,12). State the equation of the parabola in both zeros and standard form.

