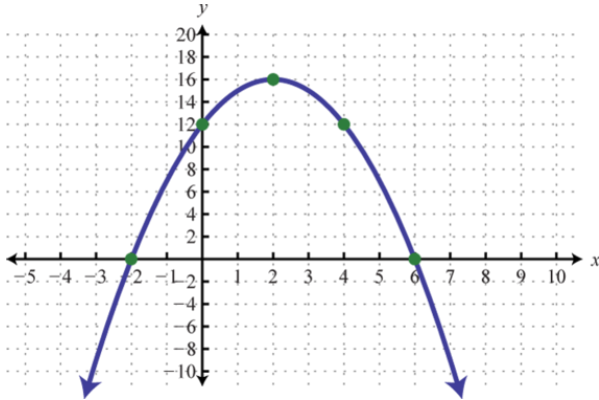


### Homework 4.3 – Factored Form Day 1

Name: \_\_\_\_\_

1. Find the **Zeros, A.O.S. and Vertex** for the following, then **write the Quadratic Function in Factored Form  $f(x) = A(x - r_1)(x - r_2)$**



Zeros \_\_\_\_\_

A.O.S. \_\_\_\_\_

Vertex \_\_\_\_\_

Factored Form: \_\_\_\_\_

Vertex Form: \_\_\_\_\_

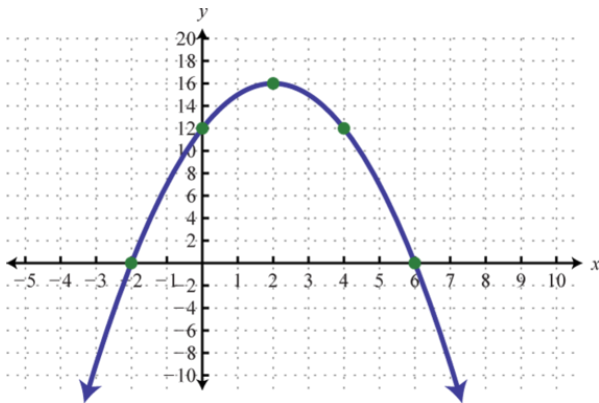
2. Given:  $f(x) = \frac{1}{3}(x - 3)(x + 10)$

- What are the zeros?
- Use algebra to find the axis of symmetry ( $x =$  )
- Does the parabola have a maximum or minimum?
- Sketch and label  $f(x) = -5(x + 4)(x - 16)$   
(vertex, A.O.S., Zeros and y-int.)

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Zeros \_\_\_\_\_

A.O.S. \_\_\_\_\_

Vertex \_\_\_\_\_

Factored Form: \_\_\_\_\_

Vertex Form: \_\_\_\_\_

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