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**Directions: Find the zeros of each function.**

1)  $f(x) = (x - 10)(x + 6)$

2)  $g(x) = 3(x + 4)(2x - 1)$

3)  $h(x) = x(x - 4)$

4)  $m(x) = (3x - 2)(4x - 1)$

**Directions: Use the zeros to find the vertex and axis of symmetry.**

5)  $f(x) = (x - 5)(x - 7)$

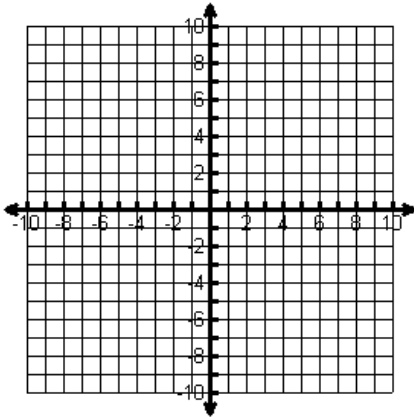
6)  $r(x) = 2x(x - 6)$

7)  $h(x) = (x - 1)(x + 3)$

8)  $w(x) = (x + 6)(x - 8)$

Directions: Graph! Then find each characteristic.

9)  $y = (x + 1)(x - 1)$



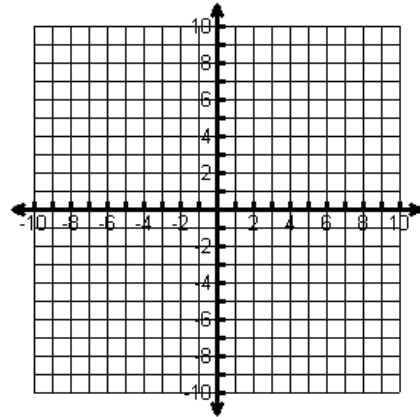
Vertex: \_\_\_\_\_

AOS: \_\_\_\_\_

Zeros: \_\_\_\_\_

y-intercept: \_\_\_\_\_

10)  $f(x) = -(x - 4)(x + 2)$



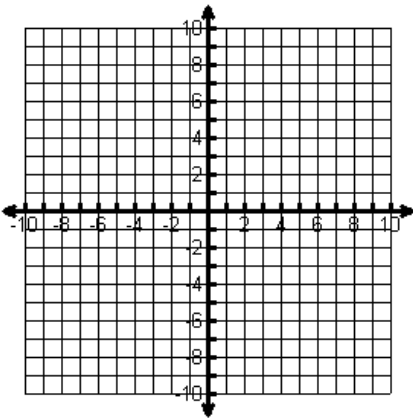
Vertex: \_\_\_\_\_

AOS: \_\_\_\_\_

Zeros: \_\_\_\_\_

y-intercept: \_\_\_\_\_

11)  $y = 2(x - 1)(x + 3)$

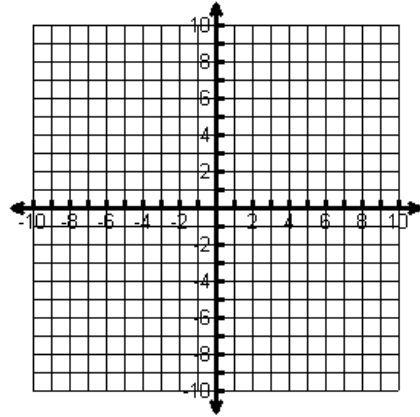


Vertex: \_\_\_\_\_

AOS: \_\_\_\_\_

y-intercept: \_\_\_\_\_

12)  $y = -x(x - 6)$



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

AOS: \_\_\_\_\_

y-intercept: \_\_\_\_\_