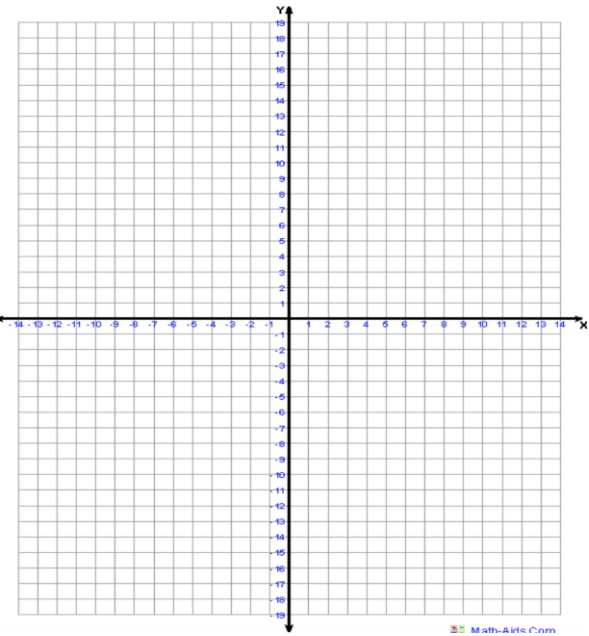


Graph the following equations. **FIND AND LABEL** all key features of the equation.

1. $y = -x^2 + 6x + 16$



Vertex _____ A.O.S _____

Maximum or Minimum?

y-intercepts _____ x-intercepts _____

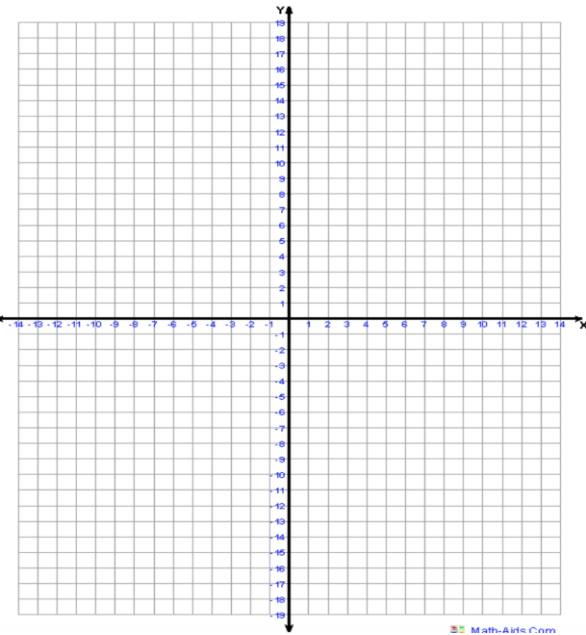
Domain _____ Range _____

Interval of Increasing _____

Interval of Decreasing _____

Graph the following equations. **FIND AND LABEL** all key features of the equation.

1. $y = \frac{1}{4}(x + 8)(x - 6)$



Vertex _____

A.O.S _____

Maximum or Minimum?

y-intercepts _____

x-intercepts _____

Domain _____

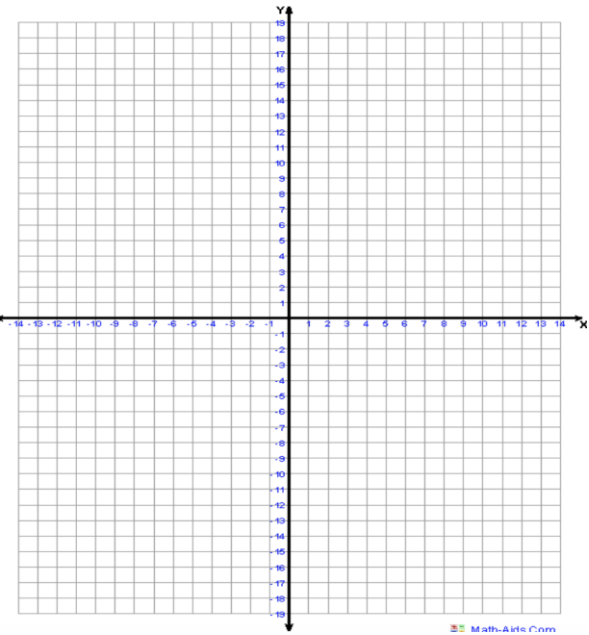
Range _____

Interval of Increasing _____

Interval of Decreasing _____

Graph the following equations. **FIND AND LABEL** all key features of the equation.

1. $y = -2(x + 2)^2 + 6$



Vertex _____ A.O.S _____

Maximum or Minimum?

y-intercepts _____

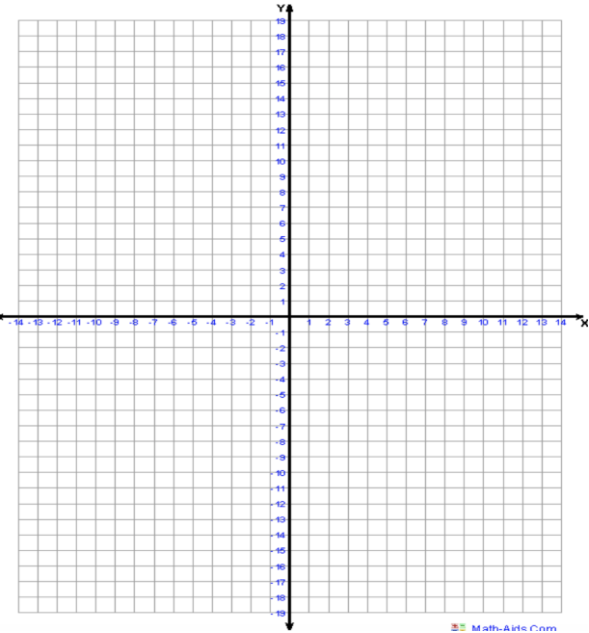
Domain _____ Range _____

Interval of Increasing _____

Interval of Decreasing _____

Graph the following equations. **FIND AND LABEL** all key features of the equation.

1. $y = 2x^2 + 3x - 14$



Vertex _____

A.O.S _____

Maximum or Minimum?

y-intercepts _____

x-intercepts _____

Domain _____

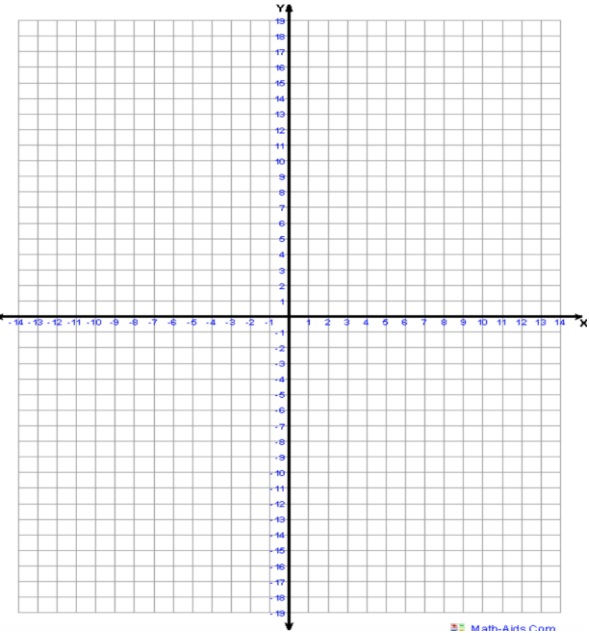
Range _____

Interval of Increasing _____

Interval of Decreasing _____

Graph the following equations. **FIND AND LABEL** all key features of the equation.

1. $y = (x + 4)(x - 2)$



Vertex _____

A.O.S _____

Maximum or Minimum?

y-intercepts _____

x-intercepts _____

Domain _____

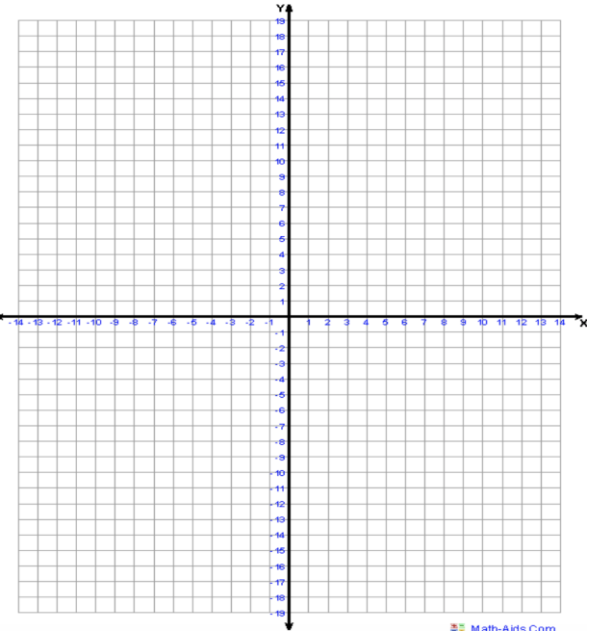
Range _____

Interval of Increasing _____

Interval of Decreasing _____

Write the equation in vertex form by completing the square.

$$y = x^2 + 6x + 15$$



Vertex Form _____

Vertex _____ AOS _____

y-intercept _____

Domain _____ Range _____

Interval of Increasing _____

Interval of Decreasing _____