Math 2   Name _____

Graphing Quadratics   Date _____ Per ____

Convert each equation to vertex form and then graph the equation.

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

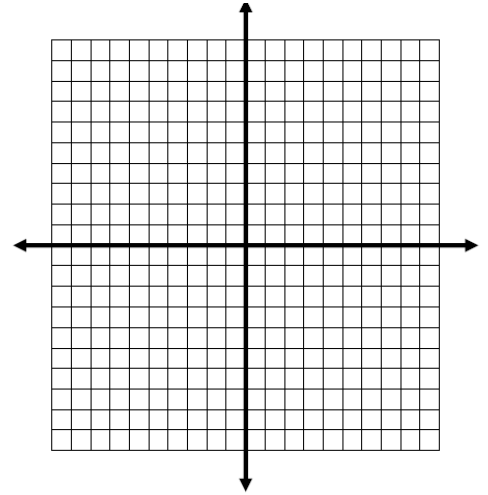
Vertex Form _____

Maximum or Minimum

Vertex _____   y – intercept _____

AOS _____   Domain_____

x – intercepts _____   Range _____

Intervals of Increasing _____   Intervals of Decreasing_____

2. . $y = x^2 + 4x - 12$

Vertex Form _____

Maximum or Minimum
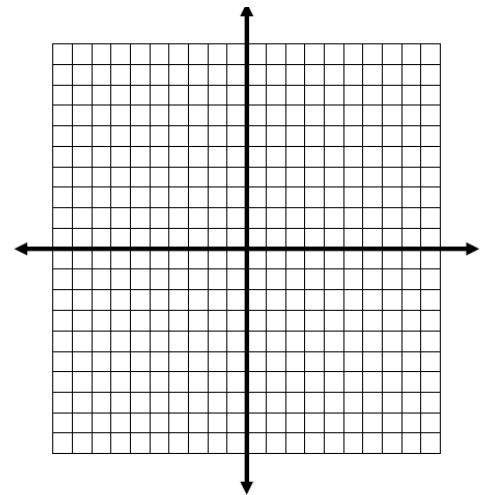
Vertex _____   y – intercept _____

AOS _____   Domain_____

x – intercepts _____   Range _____

Intervals of Increasing _____   Intervals of Decreasing_____

3. $y = x^2 + 6x + 4$

Vertex Form _____

Maximum or Minimum
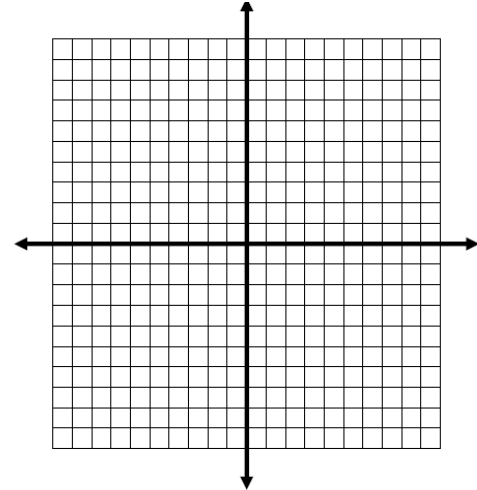
Vertex _____ y – intercept _____

AOS _____   Domain_____

x – intercepts _____   Range _____

Intervals of Increasing _____   Intervals of Decreasing_____
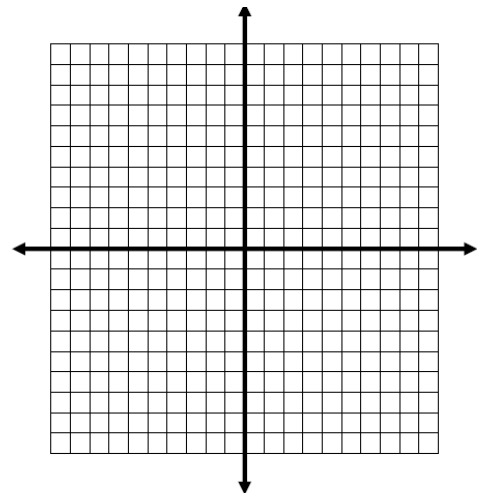
4. $y = x^2 + 4x + 3$

Vertex Form _____

Maximum or Minimum

Vertex _____ y – intercept _____

AOS _____   Domain_____

x – intercepts _____   Range _____

Intervals of Increasing _____   Intervals of Decreasing_____

5. $y = x^2 - 6$

Vertex Form _____

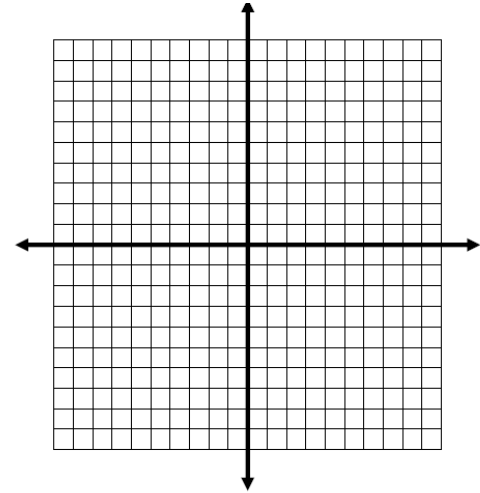Maximum or Minimum

Vertex _____   y – intercept _____

AOS _____   Domain_____

x – intercepts _____   Range _____

Intervals of Increasing _____   Intervals of Decreasing_____

6. $y = x^2 + 2x + 5$

Vertex Form _____

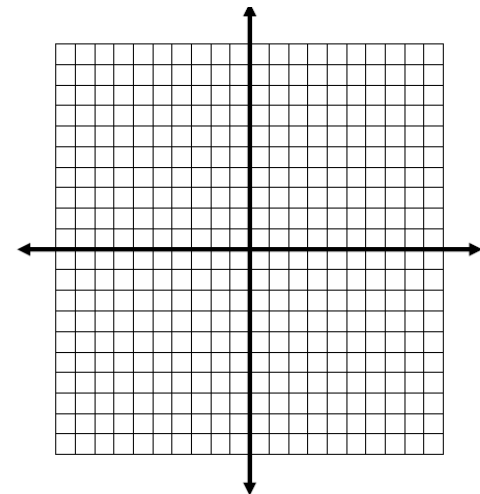Maximum or Minimum

Vertex _____   y – intercept _____

AOS _____   Domain_____

x – intercepts _____   Range _____

Intervals of Increasing _____   Intervals of Decreasing_____
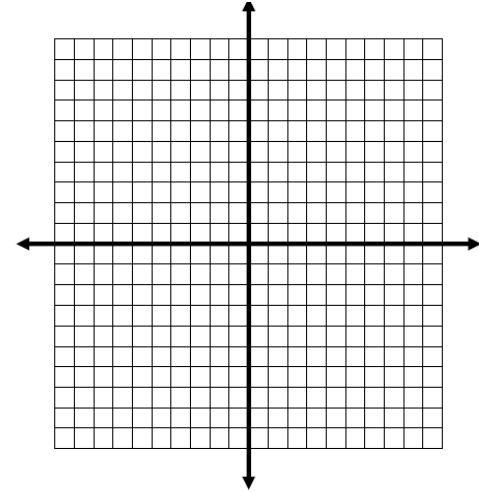
7. $y = x^2 + 5x$

Vertex Form _____

Maximum or Minimum

Vertex _____   y – intercept _____

AOS _____   Domain_____

x – intercepts _____   Range _____

Intervals of Increasing _____Intervals of Decreasing_____

8. $y = x^2 + 6x + 1$

Vertex Form _____

Maximum or Minimum

Vertex _____   y – intercept _____

AOS _____   Domain_____

x – intercepts _____   Range _____

Intervals of Increasing _____Intervals of Decreasing_____