Graphing Quadratics

Name:_____

1. Find the indicated line and points describing the parabolas below.

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

Symmetry Line:

Vertex:

y-intercept:

x-intercepts:

$y = x^2 - 2x - 15$

Symmetry Line:

Vertex:

y-intercept:

x-intercepts:

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

Symmetry Line:

Vertex:

y-intercept:

x-intercepts:

$y = -x^2 + 8x + 9$

Symmetry Line:

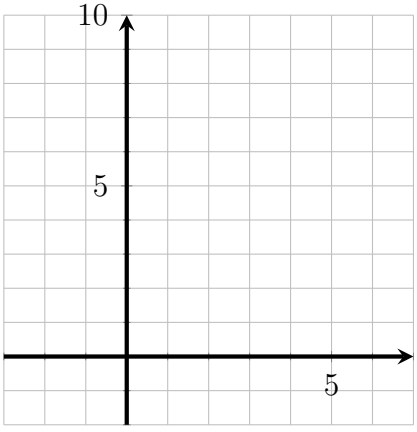
Vertex:

y-intercept:

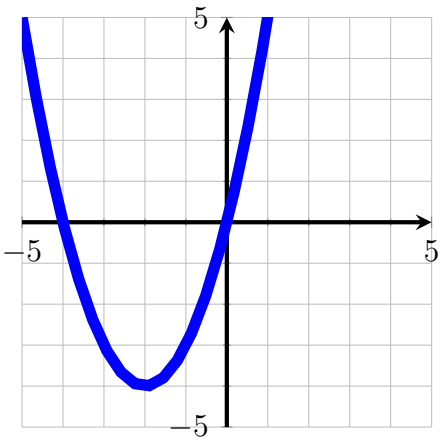
x-intercepts:

2. Draw the parabola with the information below.

- Opens downwards.
- Vertex at $(2, 9)$
- x-intercepts at $(-1, 0)$ and $(5, 0)$



3. Find the indicated line and points describing the parabolas below.

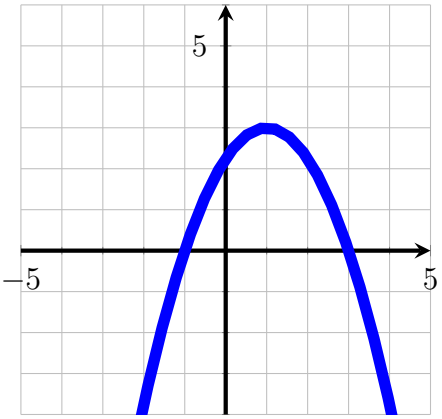


Symmetry Line:

Vertex:

y-intercept:

x-intercepts:



Symmetry Line:

Vertex:

y-intercept:

x-intercepts: