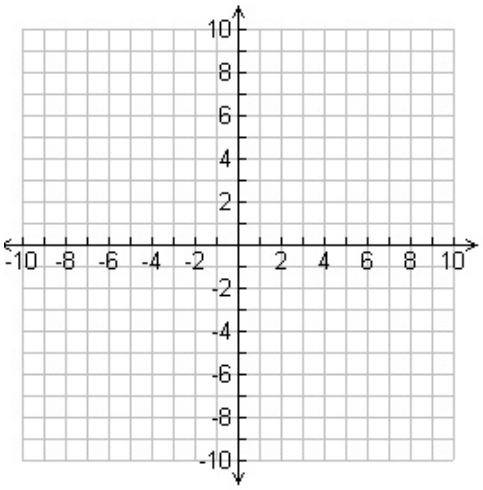
Algebra 1 – Homework Day 1 Name: _____
Graphing Quadratic Equations – Standard Form

State the required information and graph the quadratic equation.

1. $f(x)=x^2-6x+8$ Vertex = (,)

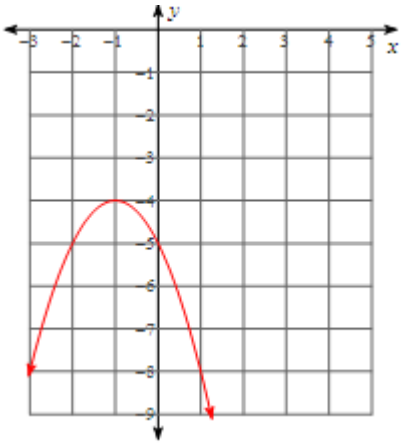


x-intercepts: y-intercept = (,)

Domain: Range:

Describe the translation:

2. Given the equation and graph of $f(x)=-x^2-2x-5$, what is the domain and range?



Domain: _____

Range: _____

3. If $f(x)=g(x)$ and $f(x)=3(x-2)^2-5$, then which of the following functions can represent $g(x)$?

a. $g(x)=x^2+3x-1$

b. $g(x)=3x^2-12x+7$

c. $g(x)=3x^2+2x-5$

d. $g(x)=x^2-2x-7$