



Name: _____

Date: _____

Quadratic Functions – Easy

1. Does $f(x) = -(x - 1)^2 + 2$ open up (1) or down (-1)?
2. Does $f(x) = (x + 2)^2 + 2$ open up (1) or down (-1)?
3. Find vertex of $f(x) = 2(x - 2)^2 + 10$
4. Find vertex of $f(x) = 2(x - 5)^2 - 4$
5. Does $f(x) = -(x + 2)^2 + 9$ open up (1) or down (-1)?
6. Does $f(x) = -2(x - 1)^2 + 1$ open up (1) or down (-1)?
7. Does $f(x) = -2(x - 4)^2 + 8$ open up (1) or down (-1)?
8. Find vertex of $f(x) = -(x + 5)^2 + 10$



Quadratic Functions – Easy – Answer Key

1. Does $f(x) = -(x - 1)^2 + 2$ open up (1) or ~~down~~ (-1)?
 $x = 2$
2. Does $f(x) = (x + 2)^2 + 2$ open up (1) or ~~down~~ (-1)?
 $x = 5$
3. Find vertex of $f(x) = 2(x - 2)^2 + 10$
 $x = 2$
4. Find vertex of $f(x) = 2(x - 5)^2 - 4$
 $x = 5$
5. Does $f(x) = -(x + 2)^2 + 9$ open up (1) or ~~down~~ (-1)?
 $x = -1$
6. Does $f(x) = -2(x - 1)^2 + 1$ open up (1) or ~~down~~ (-1)?
 $x = -1$
7. Does $f(x) = -2(x - 4)^2 + 8$ open up (1) or ~~down~~ (-1)?
 $x = 4$
8. Find vertex of $f(x) = -(x + 5)^2 + 10$
 $x = -5$