

Name: _____

WS - Quadratics - Vertex Form

1. Determine transformations of $y = -5(x+8)^2 - 5$,

Vertical Reflection? _____

Vertical Scaling? stretch / compress by _____

Horizontal Shift? left / right by _____

Vertical Shift? up / down by _____

2. Determine transformations of $y = 0.25(x+6)^2 - 6$,

Vertical Reflection? _____

Vertical Scaling? stretch / compress by _____

Horizontal Shift? left / right by _____

Vertical Shift? up / down by _____

3. Determine transformations of $y = 4(x+1)^2 - 8$,

Vertical Reflection? _____

Vertical Scaling? stretch / compress by _____

Horizontal Shift? left / right by _____

Vertical Shift? up / down by _____

4. Determine transformations of $y = -8(x-8)^2 - 4$,

Vertical Reflection? _____

Vertical Scaling? stretch / compress by _____

Horizontal Shift? left / right by _____

Vertical Shift? up / down by _____

5. Determine transformations of $y = 0.1(x+10)^2 - 2$,

Vertical Reflection? _____

Vertical Scaling? stretch / compress by _____

Horizontal Shift? left / right by _____

Vertical Shift? up / down by _____

6. Determine transformations of $y = -1.5(x-6)^2 - 3$,

Vertical Reflection? _____

Vertical Scaling? stretch / compress by _____

Horizontal Shift? left / right by _____

Vertical Shift? up / down by _____

7. Determine transformations of $y = -7(x+1)^2 - 4$,

Vertical Reflection? _____

Vertical Scaling? stretch / compress by _____

Horizontal Shift? left / right by _____

Vertical Shift? up / down by _____

8. Determine transformations of $y = -6(x-10)^2 - 3$,

Vertical Reflection? _____

Vertical Scaling? stretch / compress by _____

Horizontal Shift? left / right by _____

Vertical Shift? up / down by _____

9. Determine transformations of $y = 0.1(x-10)^2$,

Vertical Reflection? _____

Vertical Scaling? stretch / compress by _____

Horizontal Shift? left / right by _____

Vertical Shift? up / down by _____

10. Determine transformations of $y = -2(x-1)^2 - 7$,

Vertical Reflection? _____

Vertical Scaling? stretch / compress by _____

Horizontal Shift? left / right by _____

Vertical Shift? up / down by _____

11. Determine transformations of $y = 2(x+3)^2 - 5$,

Vertical Reflection? _____

Vertical Scaling? stretch / compress by _____

Horizontal Shift? left / right by _____

Vertical Shift? up / down by _____

12. Determine transformations of $y = 0.5(x-4)^2 + 6$,

Vertical Reflection? _____

Vertical Scaling? stretch / compress by _____

Horizontal Shift? left / right by _____

Vertical Shift? up / down by _____

WS - Quadratics - Vertex Form

Answer Section

1. ANS:

Vertical Reflection? **yes**
Vertical Scaling? **stretch by 5**
Horizontal Shift? **shift left by 8**
Vertical Shift? **shift down by 5**

PTS: 1 TOP: Quadratics - Graphing

2. ANS:

Vertical Reflection? **no**
Vertical Scaling? **compress by 0.25**
Horizontal Shift? **shift left by 6**
Vertical Shift? **shift down by 6**

PTS: 1 TOP: Quadratics - Graphing

3. ANS:

Vertical Reflection? **no**
Vertical Scaling? **stretch by 4**
Horizontal Shift? **shift left by 1**
Vertical Shift? **shift down by 8**

PTS: 1 TOP: Quadratics - Graphing

4. ANS:

Vertical Reflection? **yes**
Vertical Scaling? **stretch by 8**
Horizontal Shift? **shift right by 8**
Vertical Shift? **shift down by 4**

PTS: 1 TOP: Quadratics - Graphing

5. ANS:

Vertical Reflection? **no**
Vertical Scaling? **compress by 0.1**
Horizontal Shift? **shift left by 10**
Vertical Shift? **shift down by 2**

PTS: 1 TOP: Quadratics - Graphing

6. ANS:

Vertical Reflection? **yes**
Vertical Scaling? **stretch by 1.5**
Horizontal Shift? **shift right by 6**
Vertical Shift? **shift down by 3**

PTS: 1 TOP: Quadratics - Graphing

7. ANS:

Vertical Reflection? **yes**
Vertical Scaling? **stretch by 7**
Horizontal Shift? **shift left by 1**
Vertical Shift? **shift down by 4**

PTS: 1 TOP: Quadratics - Graphing

8. ANS:

Vertical Reflection? **yes**
Vertical Scaling? **stretch by 6**
Horizontal Shift? **shift right by 10**
Vertical Shift? **shift down by 3**

PTS: 1 TOP: Quadratics - Graphing

9. ANS:

Vertical Reflection? **no**
Vertical Scaling? **compress by 0.1**
Horizontal Shift? **shift right by 10**
Vertical Shift? **none**

PTS: 1 TOP: Quadratics - Graphing

10. ANS:

Vertical Reflection? **yes**
Vertical Scaling? **stretch by 2**
Horizontal Shift? **shift right by 1**
Vertical Shift? **shift down by 7**

PTS: 1 TOP: Quadratics - Graphing

11. ANS:

Vertical Reflection? **no**

Vertical Scaling? **stretch by 2**

Horizontal Shift? **shift left by 3**

Vertical Shift? **shift down by 5**

PTS: 1 TOP: Quadratics - Graphing

12. ANS:

Vertical Reflection? **no**

Vertical Scaling? **compress by 0.5**

Horizontal Shift? **shift right by 4**

Vertical Shift? **shift up by 6**

PTS: 1 TOP: Quadratics - Graphing