

## Warmup

Multiply the following and write the result in standard form.

1.  $(2x - 5)^2$

2.  $(x + 6)^2$

3.  $(x - 2)^2$

Aug 31-10:27 AM

Math 2A

Unit 2 Lesson 2 - Converting between  
Vertex Form and Standard Form

Aug 31-10:12 AM

Write the following equation in standard form.

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

Oct 19-11:17 PM

Write the following equation in standard form.

2.  $y = 2(x + 1)^2 - 4$

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Write the following equation in standard form.

3.  $y = -\frac{1}{2}(x - 2)^2 + 3$

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Write the following equation in vertex form.

4.  $y = -3x^2 + 12x + 5$

*Vertex* (     )

*a* =

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Write the following equation in vertex form.

5.  $y = x^2 + 6x + 10$

*Vertex* (     )

*a* =

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Write the following equation in vertex form.

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

*Vertex* (     )

*a* =

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Write the following equation in vertex form.

7.  $6x^2 + 12x + y + 13 = 0$

*Vertex* (     )

*a* =

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Standard Form vs Vertex Form - Which is Better?

Identify the vertex, axis of symmetry, whether the parabola opens up or down, maximum/minimum, and the y-intercept.

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

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

Oct 6-7:44 AM

Sep 8-2:38 PM