

## Complete the Square/ Transformation Problem Write Up

With a partner you will create a detailed math write up for the following problem. Your work should be neat and your work should be show and explained. You also must have a graph to support your work.

Problem: Use complete the square to find out what transformations were preformed to the parent graph  $f(x) = x^2$  to get the new graph:

$$g(x) = x^2 - 12x + 11$$

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Problem: Use complete the square to find out what transformations were preformed to the parent graph  $f(x) = x^2$  to get the new graph:

$$g(x) = x^2 + 2x - 20$$

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Problem: Use complete the square to find out what transformations were preformed to the parent graph  $f(x) = x^2$  to get the new graph:

$$g(x) = x^2 - 4x - 4$$

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Problem: Use complete the square to find out what transformations were preformed to the parent graph  $f(x) = x^2$  to get the new graph:

$$g(x) = x^2 - 6x + 91$$

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Problem: Use complete the square to find out what transformations were preformed to the parent graph  $f(x) = x^2$  to get the new graph:

$$g(x) = 5x^2 + 20x - 60$$

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Problem: Use complete the square to find out what transformations were preformed to the parent graph  $f(x) = x^2$  to get the new graph:

$$g(x) = 8x^2 + 16x - 42$$

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Problem: Use complete the square to find out what transformations were preformed to the parent graph  $f(x) = x^2$  to get the new graph:

$$g(x) = 4x^2 + 4x + 36$$

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Problem: Use complete the square to find out what transformations were preformed to the parent graph  $f(x) = x^2$  to get the new graph:

$$g(x) = 2x^2 - 5x + 67$$