

# Math 1513 - College Algebra

## Discussion Board Week 7 - Due 2016.02.28

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Start with the function  $f(x) = x^2$ . Through translations, reflections, stretching and shrinking, arrive at the function  $g(x)$ . Use these steps to help graph  $g(x)$  as well.

1.  $g(x) = 2x^2 - 12x + 22$

2.  $g(x) = 2x^2 + 12x + 22$

3.  $g(x) = -2x^2 + 12x - 14$

4.  $g(x) = -2x^2 + 12x - 22$

5.  $g(x) = -2x^2 - 12x - 22$

6.  $g(x) = 2x^2 + 12x + 14$

7.  $g(x) = -2x^2 - 12x - 14$

8.  $g(x) = 3x^2 - 6x + 1$

9.  $g(x) = -3x^2 + 6x - 5$

10.  $g(x) = -3x^2 - 6x - 5$

11.  $g(x) = -3x^2 - 6x - 1$

12.  $g(x) = 3x^2 + 6x + 5$

13.  $g(x) = 3x^2 - 6x + 5$

14.  $g(x) = 3x^2 + 6x + 1$

15.  $g(x) = 3x^2 + 12x + 9$

16.  $g(x) = -3x^2 - 12x - 15$

17.  $g(x) = -3x^2 - 12x - 9$

18.  $g(x) = -3x^2 + 12x - 9$

19.  $g(x) = 3x^2 - 12x + 15$

20.  $g(x) = 3x^2 - 12x + 9$

21.  $g(x) = 3x^2 + 12x + 15$

22.  $g(x) = 3x^2 + 12x + 8$

23.  $g(x) = 3x^2 - 12x + 16$

24.  $g(x) = -3x^2 + 12x - 8$

25.  $g(x) = -3x^2 + 12x - 11$