

Math 1513 - College Algebra

Week 11 Discussion Board Questions

Start with the function $f(x) = x^2$, and 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. $g(x) = 3x^2 + 12x + 9$

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

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

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

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

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

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

21. $g(x) = 4x^2 - 8x + 2$

22. $g(x) = 4x^2 - 8x - 5$

23. $g(x) = 4x^2 + 8x + 2$

24. $g(x) = -4x^2 - 8x + 3$

25. $g(x) = 4x^2 - 9x + 7$