Math 1513 - College Algebra

Week 5 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. $g(x) = 3x^2 + 12x + 15$