

Pre-Calculus

Section 1.3

For each function, describe the graphical transformation of its mother function.

1. $f(x) = 5x - 7$

2. $f(x) = -\frac{1}{4}(x + 5)$

3. $f(x) = (x + 7)^2$

4. $f(x) = (x - 4)^2 - 9$

5. $f(x) = -2(x + 1)^2$

6. $f(x) = -(x - 4)^2 + 5$

7. $f(x) = 5x^2 + 3$

8. $f(x) = -\frac{2}{3}x^2 - 9$

9. $f(x) = 2|-x| + 7$

10. $f(x) = -5|x - 4| - 8$

11. $f(x) = 9\sqrt{x + 5} - 3$

12. $f(x) = -6\sqrt{-x} - 11$