

Let's make a move

Using the online graphing calculator graph the parent function $f(x) = x^2$.

Graph each of the following functions and answer the questions

1) $f(x) = (x + 2)^2 - 4$

a. Did it move left or right? _____ How far? _____

b. Did it move up or down? _____ How far? _____

c. What is the center point? _____

2) $f(x) = (x - 3)^2 - 2$

a. Did it move left or right? _____ How far? _____

b. Did it move up or down? _____ How far? _____

c. What is the center point? _____

3) $f(x) = (x + 1)^2 + 5$

a. Did it move left or right? _____ How far? _____

b. Did it move up or down? _____ How far? _____

c. What is the center point? _____

4) $f(x) = (x - 4)^2 + 3$

a. Did it move left or right? _____ How far? _____

b. Did it move up or down? _____ How far? _____

c. What is the center point? _____

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5) $f(x) = x^2 - 4$

a. Did it move left or right? _____ How far? _____

b. Did it move up or down? _____ How far? _____

c. What is the center point? _____

6) $f(x) = x^2 + 1$

a. Did it move left or right? _____ How far? _____

b. Did it move up or down? _____ How far? _____

c. What is the center point? _____

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

a. Did it move left or right? _____ How far? _____

b. Did it move up or down? _____ How far? _____

c. What is the center point? _____

8) $f(x) = (x - 3)^2$

a. Did it move left or right? _____ How far? _____

b. Did it move up or down? _____ How far? _____

c. What is the center point? _____

9) $f(x) = (x - h)^2 + k$

a. Did it move left or right? _____ How far? _____

b. Did it move up or down? _____ How far? _____

c. What is the center point? _____