

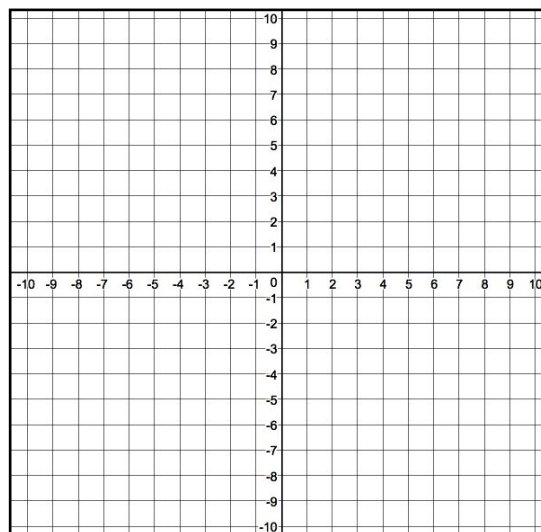
For the problems below, state what parent function it is built from, state transformations that are taking place, sketch each step in **different colors** and check your final solutions on a graphing calculator.

$$f(x) = -3|x - 4| + 9$$

Parent Function:

Parent with multiplier and what it means:

Parent with multiplier and shifts and what it means:

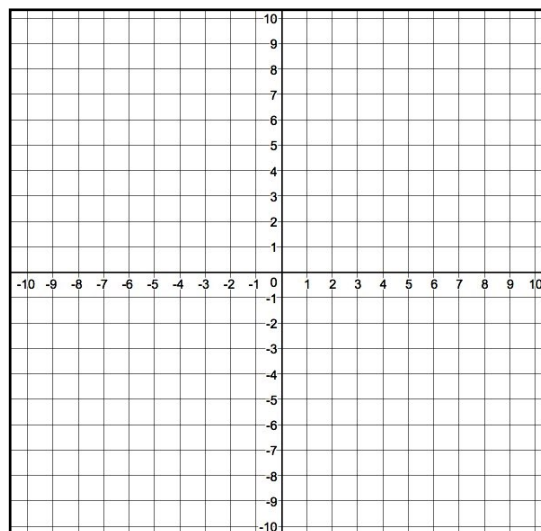


$$f(x) = -\sqrt{x} + 8$$

Parent Function:

Parent with multiplier and what it means:

Parent with multiplier and shifts and what it means:

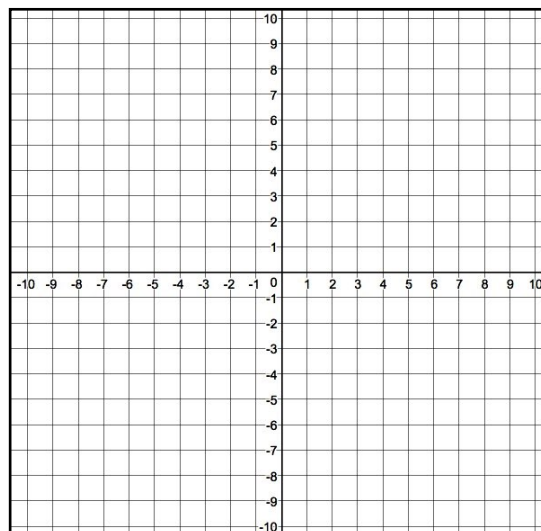


$$f(x) = -.5(x - 5)^3$$

Parent Function:

Parent with multiplier and what it means:

Parent with multiplier and shifts and what it means:

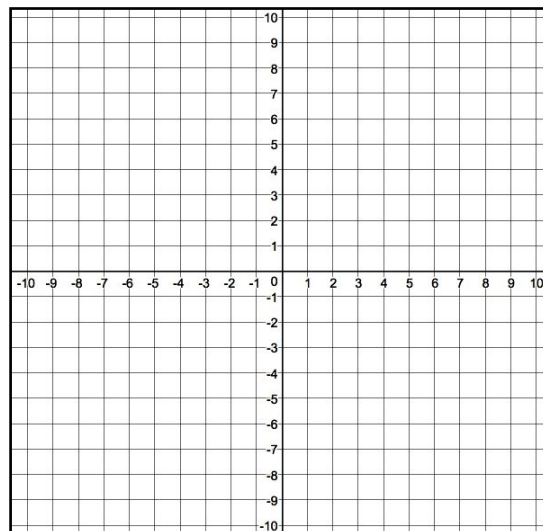


$$f(x) = -(x+5)^2 - 3$$

Parent Function:

Parent with multiplier and what it means:

Parent with multiplier and shifts and what it means:

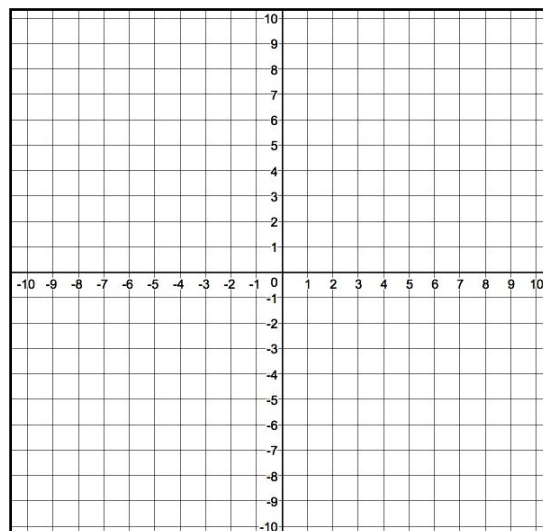


$$f(x) = 2\sqrt[3]{x-2} - 3$$

Parent Function:

Parent with multiplier and what it means:

Parent with multiplier and shifts and what it means:



$$f(x) = 2|x+6| - 6$$

Parent Function:

Parent with multiplier and what it means:

Parent with multiplier and shifts and what it means:

