

SHOW ALL WORK!

1. The point (2, 3) is on the graph of $y = f(x)$. Find a point that must be on the graph of $y = f(x) - 3$.

DOWN 3 (2, 0)

2. The point (2, 3) is on the graph of $y = f(x)$. Find a point that must be on the graph of $y = f(x-3)$.

RIGHT 3 (5, 3)

3. Determine whether the function is even, odd, or neither

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

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

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

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

Neither

4. Determine whether the function is even, odd, or neither

$$f(x) = \sqrt{x^3 + 3}$$

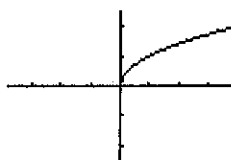
$$f(-x) = \sqrt{(-x)^3 + 3} = \sqrt{-x^3 + 3}$$

$$-f(x) = -\sqrt{x^3 + 3}$$

Neither

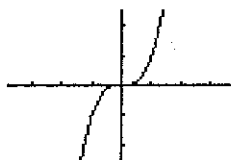
5. Determine whether the function is even, odd, or neither

a.)



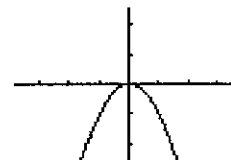
Neither

b.)



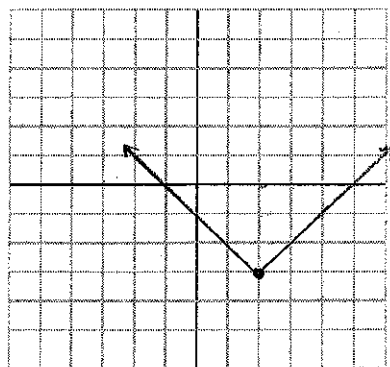
odd

c.)



Even

6. Graph $f(x) = |x-2| - 3$.



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

