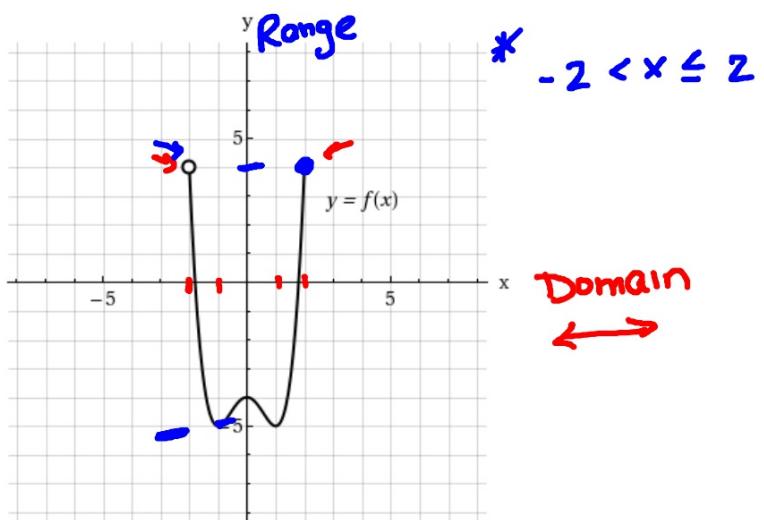


$$D: [-2, 2]$$

$$R: [-5, 4]$$



$$* y = (2x - 5)$$

$$* 3x + 2y = -3$$

$$3x + \cancel{2(2x-5)} = -3$$

$$\cancel{3x} + 4x - 10 = -3$$

$$\begin{array}{rcl} 7x & - 10 & = -3 \\ + 10 & & + 10 \\ \hline 7x & & = \frac{7}{7} \end{array}$$

$$x = 1$$

$$\begin{aligned} y &= 2x - 5 \\ y &= 2(1) - 5 \\ y &= 2 - 5 \\ y &= -3 \end{aligned}$$

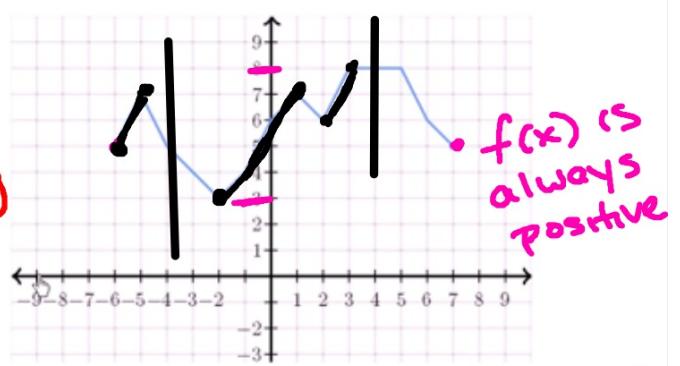
$$(1, -3)$$

- Yes it is a function
- * 3 intervals of increasing
- 3 intervals of decreasing
- 1 interval is constant

$f(x)$ is always positive

(4) Domain: $[6, 7]$

Range: $[3, 8]$



The graph is increasing from $(-2, 1)$, $(-6, 5)$ and $(2, 3)$

$$x=5, f(x)=8 \quad \text{TRUE ✓}$$

$y=8$

$$x=1 \quad f(x)=0 \quad \text{FALSE}$$

$y=0$

$$f(3) > 5 \quad \text{TRUE ✓}$$

$f(3) = 6 > 5$

$$f(11) = 1 \quad \text{TRUE}$$

$$f(x) = b \quad \text{Max} \quad \text{Min}$$

