

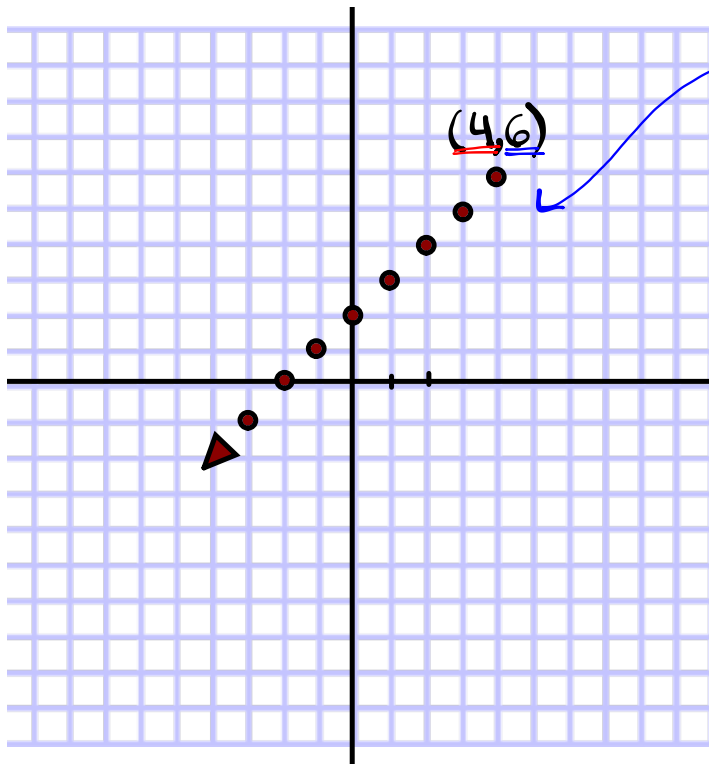
$$D: \{x \mid -2 \leq x \leq \infty, x \in \mathbb{R}\}$$

$$D: \{x \mid -2 \leq x, x \in \mathbb{R}\}$$

$$D: \{x \mid x \geq -2, x \in \mathbb{R}\}$$

$$R: \{y \mid -\infty \leq y \leq 2, y \in \mathbb{R}\}$$

$$R: \{y \mid y \leq 2, y \in \mathbb{R}\}$$



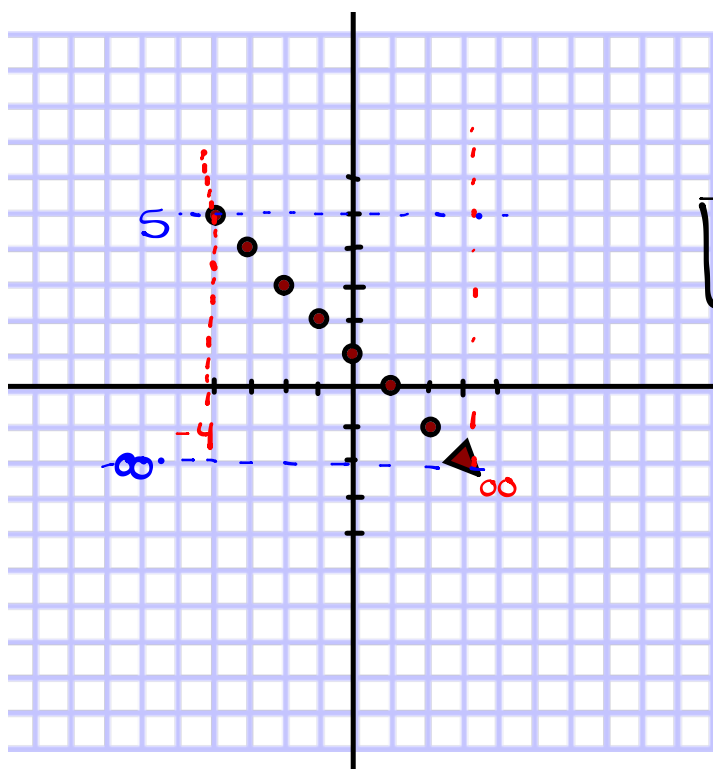
Dots

D: $\{x | \cancel{-\infty} \leq x \leq 4, x \in \mathbb{I}\}$

D: $\{x | x \leq 4, x \in \mathbb{I}\}$

R: $\{y | \cancel{-\infty} \leq y \leq 6, y \in \mathbb{I}\}$

R: $\{y | y \leq 6, y \in \mathbb{I}\}$



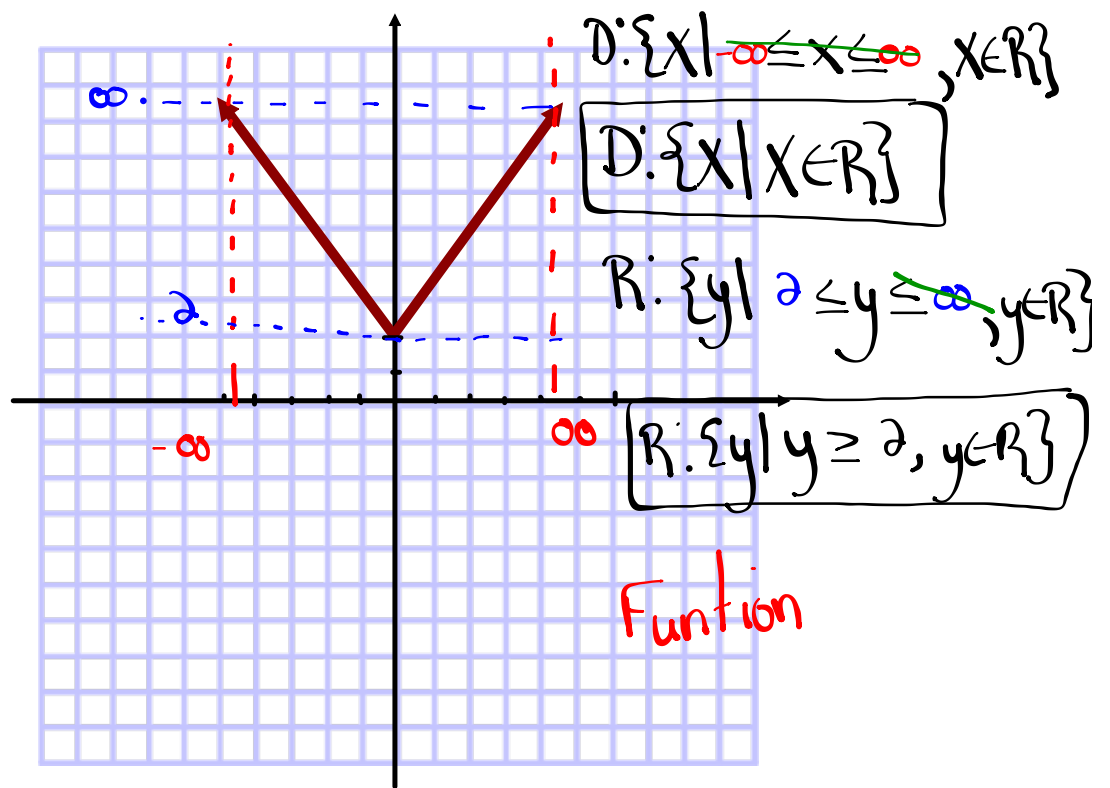
$$D: \{x \mid -4 \leq x \leq \infty, x \in \mathbb{I}\}$$

$$D: \{x \mid x \geq -4, x \in \mathbb{I}\}$$

$$R: \{y \mid -\infty < y \leq 5, y \in \mathbb{I}\}$$

$$R: \{y \mid y \leq 5, y \in \mathbb{I}\}$$

Function



Quiz

$$a) D: \{x \mid \cancel{-\infty} \leq x \leq \cancel{\infty}, x \in \mathbb{R}\}$$

$$\boxed{D: \{x \mid x \in \mathbb{R}\}}$$

$$R: \{y \mid -3 \leq y \leq \cancel{\infty}, y \in \mathbb{R}\}$$

$$\boxed{R: \{y \mid y \geq -3, y \in \mathbb{R}\}}$$

$$b) D: \{x \mid \cancel{-2} \leq x \leq \cancel{0}, x \in \mathbb{I}\}$$

$$\boxed{D: \{x \mid x \geq -2, x \in \mathbb{I}\}}$$

$$R: \{y \mid 0 \leq y \leq \cancel{\infty}, y \in \mathbb{I}\}$$

$$\boxed{R: \{y \mid y \geq 0, y \in \mathbb{I}\}}$$

Homework:

$$h(x) = 3x^2 - 2 \quad f(x) = \frac{1}{2}x + 3 \quad g(x) = 5(x-3) + 2 \quad i(x) = 7(x+5) - 2$$

$$i) \quad g(x) = 62 \quad \leftarrow y$$

$$g(x) = 5(x-3) + 2$$

$$62 = 5(x-3) + 2$$

$$62 = 5x - 15 + 2$$

$$62 = 5x - 13$$

$$62 + 13 = 5x$$

$$\frac{75}{5} = \frac{5x}{5}$$

$$15 = x \quad \leftarrow x$$

$$(15, 62)$$

$$e) \quad f(40) \quad \leftarrow x$$

$$f(x) = \frac{1}{2}x + 3$$

$$f(40) = \frac{1}{2}(40) + 3$$

$$f(40) = 20 + 3$$

$$f(40) = 23 \quad \leftarrow y$$

$$(40, 23)$$