



Determine the domain and range of a function

1

What inequality describes the range on this number line?



A

$$Y \leq 1$$

B

$$1 \leq Y$$

2

What interval describes the range on this number line?



A

$$(3, 6) \cup (8, \infty)$$

B

$$[3, 6] \cup [8, \infty)$$

3

What set describes the domain of this function?

$$f(x) = -1x - 5$$

A

$$\{\}$$

B

$$\{X \in \mathbb{R} | \}$$

4

What set describes the domain of this function?

$$f(x) = 4x^2 - 0x + 8$$

A

$$\{\}$$

B

$$\{X \in \mathbb{R} | \}$$

5

What set describes the domain of this function?

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

A

$$\{X \in \mathbb{R} | -2 \leq X\}$$

B

$$\{X \in \mathbb{R} | X \leq -2\}$$

6

What set describes the domain of this function?

$$f(x) = \frac{-5}{1x - 4}$$

A

$$\{X \in \mathbb{R} | X < 4 \text{ or } 4 < X\}$$

B

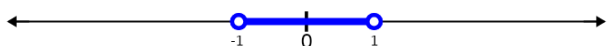
$$\{X \in \mathbb{R} | X < 4 \text{ or } -4 < X < 4\}$$

7

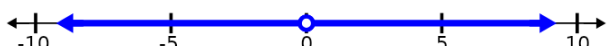
What number line shows the domain of this function?

$$f(x) = \frac{3}{1x - 0}$$

A



B

**8**

What set describes the domain of this function?

$$f(x) = \sqrt{1x^2 - 5x + 4}$$

A

$$\{X \in \mathbb{R} | X < 1 \text{ or } -4 \leq X \leq 4\}$$

B

$$\{X \in \mathbb{R} | X \leq 1 \text{ or } 4 \leq X\}$$



Determine the domain and range of a function

9

What set describes the domain of this function?

$$f(x) = \frac{-5}{1x^2 + 2x - 3}$$

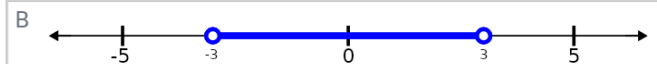
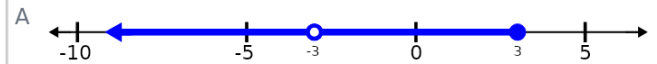
A $\{X \in \mathbb{R} | X < -3 \text{ or } -3 < X < 1 \text{ or } 1 < X\}$

B $\{X \in \mathbb{R} | -3 < X < 3 \text{ or } -3 \leq X \leq 1 \text{ or } 1 \leq X\}$

10

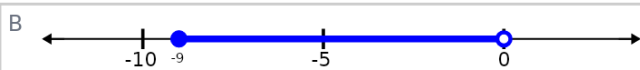
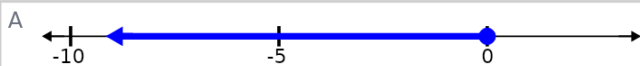
What number line shows the domain of this function?

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

**11**

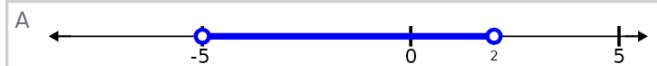
What number line shows the domain of this function?

$$f(x) = \frac{\sqrt{-1x-0}}{-1x^2 + 5x - 6}$$

**12**

What number line shows the domain of this function?

$$f(x) = \frac{-2}{\sqrt{-1x^2 - 3x + 10}}$$

**13**

What set describes the domain of this function?

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

A $\{X \in \mathbb{R} | -1 \leq X\}$

B $\{X \in \mathbb{R} | X \leq -1\}$

14

What set describes the domain of this function?

$$f(x) = \frac{-1x+4}{\sqrt{1x-3}}$$

A $\{X \in \mathbb{R} | 3 \leq X\}$

B $\{X \in \mathbb{R} | 3 < X\}$

15

What number line shows the domain of this function?

$$f(x) = \sqrt{1x^2 - 0x - 1}$$

