

Determine the domain of a function from an equation

1

What set describes the domain of this function?

$$f(x) = -1x - 3$$

A

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

B

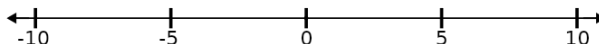
$$\{X \in \mathbb{R} \mid X \leq 4\}$$

2

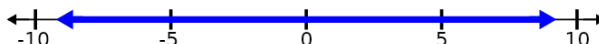
What number line shows the domain of this function?

$$f(x) = 1x^2 - 4x - 0$$

A



B

**3**

What set describes the domain of this function?

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

A

$$\{X \in \mathbb{R} \mid -4 \leq X\}$$

B

$$\{X \in \mathbb{R} \mid X \leq -4\}$$

4

What number line shows the domain of this function?

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

A



B

**5**

What set describes the domain of this function?

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

A

$$\{X \in \mathbb{R} \mid X < -3 \text{ or } -3 < X\}$$

B

$$\{X \in \mathbb{R} \mid -3 < X < 3 \text{ or } -3 < X < 3\}$$

6

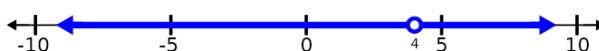
What number line shows the domain of this function?

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

A



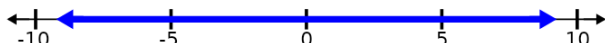
B

**7**

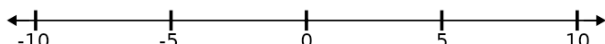
What number line shows the domain of this function?

$$f(x) = \sqrt{-3x^2 + 8x - 25}$$

A



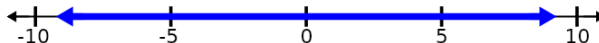
B

**8**

What number line shows the domain of this function?

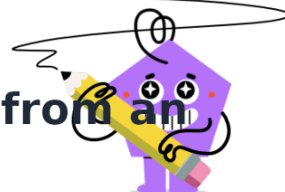
$$f(x) = \frac{-1x + 3}{-1x^2 - 1x - 5}$$

A



B





Determine the domain of a function from an equation

9

What set describes the domain of this function?

$$f(x) = \frac{-1x + 1}{4x^2 - 10x + 18}$$

A

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

B

$$\{ \}$$

10

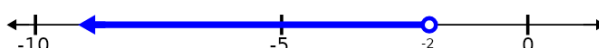
What number line shows the domain of this function?

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

A



B


11

What set describes the domain of this function?

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

A

$$\{X \in \mathbb{R} | X \leq -5\}$$

B

$$\{X \in \mathbb{R} | X < -5\}$$

12

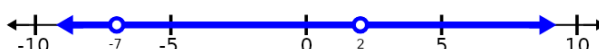
What number line shows the domain of this function?

$$f(x) = \frac{-1x - 0}{-1x^2 - 5x + 14}$$

A



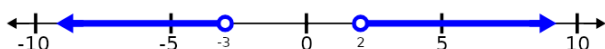
B


13

What number line shows the domain of this function?

$$f(x) = \frac{-5}{\sqrt{4x^2 + 4x - 24}}$$

A



B


14

What set describes the domain of this function?

$$f(x) = \frac{1x - 0}{\sqrt{-4x^2 - 7x - 20}}$$

A

$$\{ \}$$

B

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

15

What number line shows the domain of this function?

$$f(x) = \frac{\sqrt{-1x - 0}}{-1x^2 - 8x - 7}$$

A



B


16

What set describes the domain of this function?

$$f(x) = 5x^2 - 5x + 6$$

A

$$\{X \in \mathbb{R} | X \leq 7\}$$

B

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



Determine the domain of a function from an equation

17

What set describes the domain of this function?

$$f(x) = \frac{1x - 4}{-1x^2 - 2x + 8}$$

A $\{X \in \mathbb{R} | X < -4 \text{ or } -4 \leq X \leq 2 \text{ or } 2 < X\}$

B $\{X \in \mathbb{R} | X < -4 \text{ or } -4 < X < 2 \text{ or } 2 < X\}$

18

What set describes the domain of this function?

$$f(x) = \sqrt{-2x^2 + 4x - 0}$$

A $\{X \in \mathbb{R} | 0 < X < 2\}$

B $\{X \in \mathbb{R} | 0 \leq X \leq 2\}$

19

What set describes the domain of this function?

$$f(x) = \frac{1x - 3}{\sqrt{3x^2 + 6x - 0}}$$

A $\{X \in \mathbb{R} | X < -2 \text{ or } 0 < X\}$

B $\{X \in \mathbb{R} | X < -2 \text{ or } 0 \leq X\}$

20

What set describes the domain of this function?

$$f(x) = \frac{\sqrt{-1x - 5}}{-2x^2 - 10x + 12}$$

A $\{X \in \mathbb{R} | X < -6 \text{ or } -6 \leq X < -5\}$

B $\{X \in \mathbb{R} | X < -6 \text{ or } -6 < X \leq -5\}$