

Determine the domain of a composite function

1

What number line shows the domain of this function?

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

**2**

What set describes the domain of this function?

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

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

B $\{X \in \mathbb{R} | X \leq 4\}$

3

What number line shows the domain of this function?

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

**4**

What set describes the domain of this function?

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

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

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

5

What number line shows the domain of this function?

$$f(x) = \sqrt{-2x^2 - 6x - 4}$$

**6**

What set describes the domain of this function?

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

A $\{X \in \mathbb{R} | X \leq 0 \text{ or } 7 \leq X\}$

B $\{X \in \mathbb{R} | X \leq 0 \text{ or } -7 \leq X \leq 7\}$

7

What number line shows the domain of this function?

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

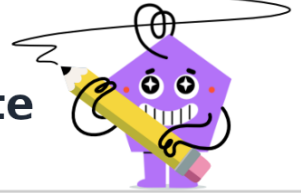
**8**

What set describes the domain of this function?

$$f(x) = \frac{2}{\sqrt{1x + 4}}$$

A $\{X \in \mathbb{R} | -4 \leq X \leq 4\}$

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



Determine the domain of a composite function

9

What part of this composite function is $d(x)$?
given $p(d(x))$

$d(x)$ is the ?

A inner function

B outer function

10

Find the composite function of $r(m(x))$?

given:

$$r(x) = -2x^2 - 1x - 3$$

$$m(x) = 2 \log 3x$$

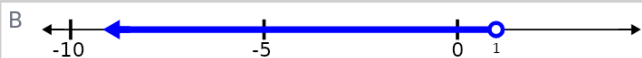
$$r(m(x)) = ?$$

A $r(m(x)) = 2 \log 3(-2x^2 - 1x - 3)$

B $r(m(x)) = -2(2 \log 3x)^2 - 1(2 \log 3x) - 3$

11

Which number line shows the domain of this function composition?

**12**

Which set describes the domain of this function composition?

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

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

13

Which set describes the domain of this function composition?

A $\{X \in \mathbb{R} \mid X < -5 \text{ or } -5 < X\}$

B $\{X \in \mathbb{R} \mid -5 \leq X < -3 \text{ or } -5 \leq X < 5\}$

14

Which set describes the domain of this function composition?

A $\{X \in \mathbb{R} \mid 5 \leq X\}$

B $\{X \in \mathbb{R} \mid X \leq 5\}$

15

Which number line shows the domain of this function composition?

**16**

Which number line shows the domain of this function composition?

