

## mobius

## **Function Composition to Domain -**Integer over Root of Linear to Domain



## **Definition**

$$f(x) = rac{4}{\sqrt{x}}$$

Which set describes the domain of this function composition?

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

Which set describes the domain of this function composition?

$$g(x) = 1x + 4$$

$$\{X \in \mathbb{R} | -4 \le X\}$$

$$g(x) = -1x + 5$$

$$f(g(x)) o \mathsf{Domain?}ig|_{\{X \in \mathbb{R}|-4 < X\}}^{\mathsf{B}} f(g(x)) o \mathsf{Domain?}$$

$$\{X \in \mathbb{R} | X \le 5\} \left| \{X \in \mathbb{R} | 5 \le X\} \right|$$

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

Which set describes the domain of this function composition?

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

Which set describes the domain of this function composition?

$$g(x) = 1x + 2$$

$${}^{\mathbb{A}}_{X} \in \mathbb{R}|-2 < X\}$$

$$g(x) = -1x + 2$$

$$f(g(x)) \to \mathsf{Domain?}$$

$$f(g(x)) o \mathsf{Domain?}\Big|^{\mathtt{B}}_{\{X}\in\mathbb{R}|X<-2\}\Big|f(g(x)) o \mathsf{Domain?}\Big|$$

$$f(g(x)) \rightarrow \mathsf{Domain}$$
?

$$\{X \in \mathbb{R} | 2 \le X\} | \{X \in \mathbb{R} | X \le 2\}$$

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

Which set describes the domain of this function composition?

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

Which set describes the domain of this function composition?

$$g(x) = 1x - 1$$

$$g(x)=1x+5$$

$${}^{\mathsf{A}}_{\{X} \in \mathbb{R} | -5 < X\}$$

$$f(g(x)) \rightarrow \mathsf{Domain}$$
?

$$\{X \in \mathbb{R} | 1 \leq X\} \left| \{X \in \mathbb{R} | X \leq 1\} \right| f(g(x)) o \mathsf{Domain}$$

$$f(g(x)) o \mathsf{Domain?}ig|^{\mathtt{B}}\!\!\!\{X\in\mathbb{R}|X<\!-\!5\}$$

$$egin{aligned} \mathbf{7} & f(x) = rac{-2}{\sqrt{x}} \end{aligned}$$

Which set describes the domain of this function composition?

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

Which set describes the domain of this function composition?

$$g(x)=1x-0$$

$$g(x) = -1x + 2$$

 $f(g(x)) \rightarrow \mathsf{Domain}$ ?

$$\{X \in \mathbb{R} | 0 < X\} \mid \{X \in \mathbb{R} | X < 0\}$$

$$f(g(x)) \to \mathsf{Domain}$$
?

$$\{X \in \mathbb{R} | 2 \le X\} \left\{ X \in \mathbb{R} | X \le 2 \right\}$$