

Function Composition to Domain - Integer over Root of Quadratic (Real Roots) to Number Line

1

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

Which number line shows the domain of this function composition?

$$g(x) = -2x^2 - 6x + 20$$



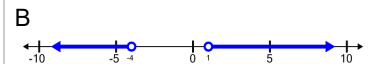
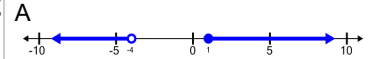
$f(g(x)) \rightarrow$ Domain?

2

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

Which number line shows the domain of this function composition?

$$g(x) = 3x^2 + 9x - 12$$



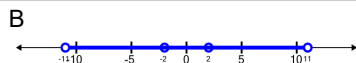
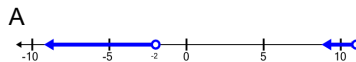
$f(g(x)) \rightarrow$ Domain?

3

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

Which number line shows the domain of this function composition?

$$g(x) = 1x^2 - 9x - 22$$



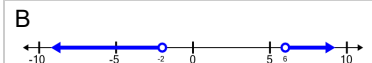
$f(g(x)) \rightarrow$ Domain?

4

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

Which number line shows the domain of this function composition?

$$g(x) = 2x^2 - 8x - 24$$



$f(g(x)) \rightarrow$ Domain?

5

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

Which number line shows the domain of this function composition?

$$g(x) = -1x^2 - 2x + 3$$



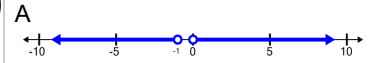
$f(g(x)) \rightarrow$ Domain?

6

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

Which number line shows the domain of this function composition?

$$g(x) = 3x^2 + 3x - 0$$



$f(g(x)) \rightarrow$ Domain?

7

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

Which number line shows the domain of this function composition?

$$g(x) = -1x^2 - 7x - 10$$



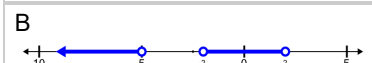
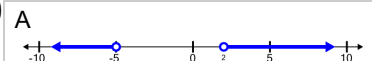
$f(g(x)) \rightarrow$ Domain?

8

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

Which number line shows the domain of this function composition?

$$g(x) = 2x^2 + 6x - 20$$



$f(g(x)) \rightarrow$ Domain?