



Function Domain - Fraction Root of Linear over Quadratic (Real Roots) to Domain Definition

1 What set describes the domain of this function?

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

A
 $\{X \in \mathbb{R} | X < -8 \text{ or } -8 < X < 0 \text{ or } 0 < X \leq 2\}$

B
 $\{X \in \mathbb{R} | -8 \leq X < -5 \text{ or } -8 \leq X \leq 0 \text{ or } 0 < X\}$

2 What set describes the domain of this function?

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

A
 $\{X \in \mathbb{R} | X < -2 \text{ or } -2 < X \leq -1 \text{ or } -1 \leq X < 2\}$

B
 $\{X \in \mathbb{R} | X < -2 \text{ or } -2 < X < -1 \text{ or } -1 < X \leq 2\}$

3 What set describes the domain of this function?

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

A
 $\{X \in \mathbb{R} | X < -1 \text{ or } -1 < X \leq 0\}$

B
 $\{X \in \mathbb{R} | X \leq -1 \text{ or } -1 \leq X \leq 0\}$

4 What set describes the domain of this function?

$$f(x) = \frac{\sqrt{-1x-3}}{-1x^2-0x+9}$$

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

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

5 What set describes the domain of this function?

$$f(x) = \frac{\sqrt{-1x+2}}{5x^2-0x-20}$$

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

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

6 What set describes the domain of this function?

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

A
 $\{X \in \mathbb{R} | -2 \leq X \leq 1 \text{ or } -1 < X < 1\}$

B
 $\{X \in \mathbb{R} | -2 < X < 1 \text{ or } 1 < X\}$

7 What set describes the domain of this function?

$$f(x) = \frac{\sqrt{1x-2}}{1x^2-8x+15}$$

A
 $\{X \in \mathbb{R} | 2 \leq X < 3 \text{ or } 3 < X < 5 \text{ or } 5 < X\}$

B
 $\{X \in \mathbb{R} | 2 < X \leq 3 \text{ or } 3 \leq X \leq 5 \text{ or } 5 < X\}$

8 What set describes the domain of this function?

$$f(x) = \frac{\sqrt{1x-1}}{1x^2-9x+18}$$

A
 $\{X \in \mathbb{R} | 1 \leq X \leq 3 \text{ or } 3 \leq X \leq 6 \text{ or } -6 < X < 6\}$

B
 $\{X \in \mathbb{R} | 1 \leq X < 3 \text{ or } 3 < X < 6 \text{ or } 6 < X\}$