Name

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

1

What set describes the domain of this function?

$$f(x) = \frac{\sqrt{1x-4}}{\sqrt{2x^2+8x+24}}$$

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

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

2

What set describes the domain of this function?

$$f(x) = \frac{\sqrt{-1x+3}}{\sqrt{-3x^2-10x-19}}$$

A $\{\}$

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

3

What set describes the domain of this function?

$$f(x) = \frac{\sqrt{-1x-1}}{\sqrt{-5x^2-8x-15}}$$

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

B $\{\}$

4

What set describes the domain of this function?

$$f(x) = \frac{\sqrt{1x-5}}{\sqrt{4x^2-10x+18}}$$

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

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

5

What set describes the domain of this function?

$$f(x) = \frac{\sqrt{1x+3}}{\sqrt{3x^2+7x+23}}$$

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

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

6

What set describes the domain of this function?

$$f(x) = \frac{\sqrt{-1x+3}}{\sqrt{-3x^2+7x-21}}$$

A $\{\}$

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

7

What set describes the domain of this function?

$$f(x) = \frac{\sqrt{1x+2}}{\sqrt{-4x^2-6x-14}}$$

A $\{\}$

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

8

What set describes the domain of this function?

$$f(x) = \frac{\sqrt{-1x-3}}{\sqrt{4x^2-8x+19}}$$

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

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