



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

Definition

1 What set describes the domain of this function? $f(x) = \frac{4}{\sqrt{1x^2 + 8x - 0}}$

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

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

2 What set describes the domain of this function? $f(x) = \frac{3}{\sqrt{-2x^2 - 0x + 8}}$

A $\{X \in \mathbb{R} | -2 \leq X \leq 2\}$

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

3 What set describes the domain of this function? $f(x) = \frac{-1}{\sqrt{2x^2 + 6x - 8}}$

A $\{X \in \mathbb{R} | -4 < X < 4 \text{ or } -1 < X < 1\}$

B $\{X \in \mathbb{R} | X < -4 \text{ or } 1 < X\}$

4 What set describes the domain of this function? $f(x) = \frac{4}{\sqrt{3x^2 + 6x - 9}}$

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

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

5 What set describes the domain of this function? $f(x) = \frac{-1}{\sqrt{-1x^2 - 9x + 10}}$

A $\{X \in \mathbb{R} | -10 < X < 1\}$

B $\{X \in \mathbb{R} | -10 \leq X \leq 1\}$

6 What set describes the domain of this function? $f(x) = \frac{-3}{\sqrt{-1x^2 - 3x + 10}}$

A $\{X \in \mathbb{R} | -5 < X < 2\}$

B $\{X \in \mathbb{R} | -5 \leq X \leq 2\}$

7 What set describes the domain of this function? $f(x) = \frac{-1}{\sqrt{1x^2 - 1x - 2}}$

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

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

8 What set describes the domain of this function? $f(x) = \frac{-3}{\sqrt{-3x^2 - 6x + 24}}$

A $\{X \in \mathbb{R} | -4 \leq X \leq 2\}$

B $\{X \in \mathbb{R} | -4 < X < 2\}$