



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

Definition

1 What set describes the domain of this function? $f(x) = \frac{-1}{-2x^2 + 2x + 24}$

A $\{X \in \mathbb{R} | X < -3 \text{ or } -3 < X < 4 \text{ or } 4 < X\}$

B $\{X \in \mathbb{R} | -3 < X < 3 \text{ or } -3 \leq X \leq 4 \text{ or } -4 < X < 4\}$

2 What set describes the domain of this function? $f(x) = \frac{-5}{5x^2 - 10x - 15}$

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

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

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

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

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

4 What set describes the domain of this function? $f(x) = \frac{4}{1x^2 - 7x + 10}$

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

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

5 What set describes the domain of this function? $f(x) = \frac{-4}{2x^2 - 10x - 0}$

A $\{X \in \mathbb{R} | -1 < X < 1 \text{ or } 0 \leq X \leq 5 \text{ or } 5 < X\}$

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

6 What set describes the domain of this function? $f(x) = \frac{-5}{3x^2 + 9x + 6}$

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

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

7 What set describes the domain of this function? $f(x) = \frac{2}{1x^2 - 4x + 3}$

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

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

8 What set describes the domain of this function? $f(x) = \frac{2}{-2x^2 - 2x + 12}$

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

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