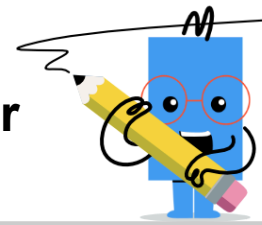
Name

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



1 What set describes the domain of this function? $f(x) = \frac{-1x + 2}{3x^2 - 9x - 12}$

A
$\{X \in \mathbb{R} | -5 \leq X < -1 \text{ or } -1 < X < 4 \text{ or } -4 < X < 4\}$

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

2 What set describes the domain of this function? $f(x) = \frac{1x - 5}{5x^2 - 5x - 0}$

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

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

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

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

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

4 What set describes the domain of this function? $f(x) = \frac{-1x - 1}{2x^2 + 4x - 16}$

A
$\{X \in \mathbb{R} | X < -4 \text{ or } -4 < X < 2 \text{ or } 2 < X\}$

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

5 What set describes the domain of this function? $f(x) = \frac{-1x - 1}{1x^2 - 8x - 20}$

A
$\{X \in \mathbb{R} | -2 < X < 2 \text{ or } -2 \leq X \leq 10 \text{ or } 10 \leq X\}$

B
$\{X \in \mathbb{R} | X < -2 \text{ or } -2 < X < 10 \text{ or } 10 < X\}$

6 What set describes the domain of this function? $f(x) = \frac{-1x - 4}{3x^2 - 9x + 6}$

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

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

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

A
$\{X \in \mathbb{R} | -8 \leq X < -5 \text{ or } -8 \leq X \leq 0 \text{ or } -1 < X < 1\}$

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

8 What set describes the domain of this function? $f(x) = \frac{-1x + 3}{1x^2 - 9x + 20}$

A
$\{X \in \mathbb{R} | -1 < X < 4 \text{ or } 4 \leq X \leq 5 \text{ or } 5 \leq X\}$

B
$\{X \in \mathbb{R} | X < 4 \text{ or } 4 < X < 5 \text{ or } 5 < X\}$