

Intermediate Algebra Skill

Finding the Domain: Given the Equation; Rational Function and Linear Denominator

Find the Domain.

1) $F(x) = \frac{1}{x-4}$

2) $G(x) = \frac{5}{2x-6}$

3) $f(x) = \frac{3}{x+1}$

4) $g(x) = \frac{-7}{x+3}$

5) $H(x) = \frac{x}{x+2}$

6) $h(x) = \frac{x}{x-2}$

7) $J(x) = \frac{x-2}{x+4}$

8) $j(x) = \frac{x+2}{x-4}$

9) $K(x) = \frac{x+1}{3x-1}$

10) $k(x) = \frac{2x-5}{4x+3}$

Answers to Finding the Domain: Given the Equation; Rational Function and Linear Denominator

1) $\mathbb{R} \setminus \{4\}$

2) $\mathbb{R} \setminus \{3\}$

3) $\mathbb{R} \setminus \{-1\}$

4) $\mathbb{R} \setminus \{-3\}$

5) $\mathbb{R} \setminus \{-2\}$

6) $\mathbb{R} \setminus \{2\}$

7) $\mathbb{R} \setminus \{-4\}$

8) $\mathbb{R} \setminus \{4\}$

9) $\mathbb{R} \setminus \{1/3\}$

10) $\mathbb{R} \setminus \{-3/4\}$