

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