

# Subtracting Rational Expressions Practice Problems

**Subtract the rational expressions. REMEMBER TO SIMPLIFY AT THE END!!!**

1)  $\frac{3}{5x+15} - \frac{2}{5x+15}$

2)  $\frac{14}{x-3} - \frac{9}{x-3}$

3)  $\frac{3x}{2x^3} - \frac{5}{4}$

4)  $\frac{2x}{4x} - \frac{7x}{4x^3}$

5)  $\frac{5}{3} - \frac{3x}{6x^2}$

6)  $\frac{3x}{4} - \frac{7}{4x}$

7)  $\frac{5x}{3x} - \frac{7}{5}$

8)  $\frac{5}{x^2+6x+9} - \frac{4}{x^2-5x-24}$

9)  $\frac{6}{x^2+3x-10} - \frac{2}{x^2+2x-8}$

10)  $\frac{17x}{x^2+2x+1} - \frac{4x}{x^2+2x+1}$

## Answers to Subtracting Rational Expressions Practice Problems

$$1) \frac{1}{5x + 15}$$

$$2) \frac{5}{x - 3}$$

$$3) \frac{6 - 5x^2}{4x^2}$$

$$4) \frac{2x^2 - 7}{4x^2}$$

$$5) \frac{10x - 3}{6x}$$

$$6) \frac{3x^2 - 7}{4x}$$

$$7) \frac{4}{15}$$

$$8) \frac{x - 52}{(x + 3)(x + 3)(x - 8)}$$

$$9) \frac{2(2x + 7)}{(x + 5)(x - 2)(x + 4)}$$

$$10) \frac{13x}{x^2 + 2x + 1}$$