

Adding and Subtracting Rational
Expressions with Unlike
Denominators

1. Find each sum and simplify.
(similar to p.478 #30)

$$\frac{4x-8}{x^2-9x+14} + \frac{x+3}{x-7}$$

2. Find each sum and simplify.
(similar to p.478 #32)

$$\frac{9}{x-3} + \frac{x+3}{x^2-9}$$

3. Find each difference and
simplify.
(similar to p.478 #34)

$$\frac{1}{12} - \frac{5}{16}$$

4. Find each difference and
simplify.
(similar to p.478 #38)

$$\frac{x-3}{x+5} - \frac{x+3}{x-5}$$

5. Find each difference and
simplify.
(similar to p.478 #40)

$$\frac{x}{x+2} - \frac{-3}{x^2+4x+4}$$

6. Find each difference and simplify.
(similar to p.478 #42)

$$\frac{3x+2}{2x-12} - \frac{x+4}{x-6}$$

7. Find each difference and simplify.
(similar to p.478 #44)

$$\frac{x-3}{x^2-4x} - \frac{7x+1}{4-x}$$