

Lesson 8.5 Worksheet

Name: _____

Find the least common multiple of the polynomials.

1.) $2x^2$ and $4x + 12$

2.) $x^2 - 25$, x , and $x - 5$

3.) $24x^2$ and $8x^2 - 16x$

Perform the indicated operation(s) and simplify.

4.) $\frac{x}{16x^2} - \frac{4}{16x^2}$

5.) $\frac{5x}{x+3} + \frac{15}{x+3}$

6.) $\frac{3x^2}{x-8} - \frac{6x}{x-8}$

7.) $\frac{12}{5x} + \frac{7}{6x}$

8.) $\frac{x-4}{5x} - \frac{12}{5(x-4)}$

9.) $\frac{12}{x^2 + 5x - 24} + \frac{3}{x-3}$

$$10.) \frac{x+4}{x^2-4} - \frac{15}{x-2}$$

$$11.) \frac{x^2-5}{x^2+5x-14} - \frac{x+3}{x+7}$$

$$12.) \frac{x}{x^2-9} + \frac{x+1}{x^2+6x+9}$$

$$13.) \frac{x+3}{x^2-2x-8} - \frac{x-5}{x^2-12x+32}$$

$$14.) \frac{x+2}{x-4} + \frac{2}{x} + \frac{5x}{3x-1}$$

$$15.) \frac{x+3}{x^2-25} - \frac{x-1}{x-5} + \frac{3}{x+3}$$