

1. Multiply or divide, as indicated. Remember to cancel first!

(a)  $\frac{8w^2}{9} \cdot \frac{3}{2w^4}$

(b)  $\frac{27r^5}{7s} \cdot \frac{2rs^3}{9r^3s^2}$

(c)  $x(x+5)^2 \cdot \frac{2}{x^2-25}$

(d)  $\frac{6x^2y^2}{(x-2)} \div \frac{3xy^2}{(x-2)^2}$

(e)  $\frac{t^2+5t}{t+1} \div (t+5)$

(f)  $\frac{2}{25x^2} \cdot \frac{5x}{12} \div \frac{2}{15x}$

(g)  $\frac{x^2-4y^2}{x+2y} \div (x+2y) \cdot \frac{2y}{x-2y}$

2. Add or subtract, as indicated. Start by finding the Least Common Denominator (LCD). Remember to simplify after adding or subtracting.

(a)  $\frac{x}{x^2+4x-12} - \frac{6}{x^2+4x-12}$  LCD:

(b)  $\frac{4}{3p} - \frac{5}{2p^2}$  LCD:

(c)  $\frac{6}{5a^2b} - \frac{1}{10ab}$  LCD:

(d)  $\frac{x-2}{x-6} - \frac{x+2}{6-x}$  LCD:

(e)  $\frac{5}{9-x^2} - \frac{4}{x^2+4x+3}$  LCD:

(f)  $\frac{x+2}{x^2-36} - \frac{x}{x^2+9x+18}$  LCD:

(g)  $\frac{t+1}{1+3} - \frac{t-2}{t-3} + \frac{6}{t^2-9}$  LCD:

(h)  $w + 2 + \frac{1}{w-2}$  LCD: