

EJERCICIOS FRACCIONES ALGEBRAICAS

Resuelve las siguientes operaciones de fracciones algebraicas:

$$1 \quad \frac{x+5}{x-5} + \frac{x-5}{x+5}$$

$$2 \quad \frac{4ab^2}{5b} \cdot \frac{20a}{16b}$$

$$3 \quad \frac{a+b}{8} \cdot \frac{6a}{2a+2b}$$

$$4 \quad \frac{3x-3y}{x+y} : \frac{4x-4y}{x+y}$$

$$5 \quad \frac{x^2 - y^2}{x^2 + 2xy + y^2} : \frac{x+y}{(x+y)^2}$$

$$6 \quad \frac{x-1}{3x+6} + \frac{x+1}{5x+10} - \frac{x-2}{2x+4}$$

$$7 \quad \frac{5x+4}{x-2} - \frac{3x-2}{x-3} - \frac{x^2 - x - 16}{x^2 - 5x + 6}$$

$$8 \quad \frac{x^2 + 7x + 10}{x^2 + 2x - 3} \cdot \frac{x^2 - 4x - 21}{x^2 + 9x + 20} \cdot \frac{x^2 + 3x - 4}{x^2 - 5x - 14}$$

$$9 \quad \frac{y+6}{y^2-1} + \frac{2y+2}{y-1} + \frac{3(y+2)}{y^2+3y+2} =$$

$$10 \quad -\frac{x^2 - y^2}{3x^2 - 9} : \frac{x+y}{x+3} =$$

$$11 \quad \frac{3t}{t+2} + \frac{t^2}{t-1} - \frac{t^3 + 2t}{t^2 + t - 2} =$$