

Respuesta a los ejercicios

$$1 \quad \frac{x^2 - 2x}{x^2 - 5x + 6} \cdot \frac{x^2 + 4x + 4}{x^2 - 4} = \frac{x(x-2) \cdot (x+2)^2}{(x-2) \cdot (x-3) \cdot (x-2) \cdot (x+2)}$$

$$2 \quad \frac{x^2 + 2x}{x^2 - 5x + 6} \cdot \frac{x^2 + 4x + 4}{x^2 - 4} = \frac{x}{x-3}$$

$$3 \quad \frac{x+y}{x-y} + \frac{x-y}{x+y} = \frac{2(x^2 + y^2)}{x^2 - y^2}$$

$$4 \quad \frac{x^2 \cdot (x-2) \cdot x}{(x-1)^2} = \frac{x^3 \cdot (x-2)}{(x-1)^2}$$

$$5 \quad \frac{x}{2x+1} = \frac{x(x+1)}{2x+1}$$

$$6 \quad \frac{2}{x^2} + \frac{5}{x^2} = \frac{7}{x^2}$$

$$7 \quad \frac{\frac{5m^2}{7n^3}}{\frac{10m^4}{14an^4}} = \frac{an}{m^2}$$

$$8 \quad \frac{5x+5y}{120} + \frac{4x+8y}{120} + \frac{2x-2y}{120} = \frac{11x-11y}{120}$$

$$9 \quad \frac{x^2+2x}{x^2-5x+6} \div \frac{x^2+4x+4}{x^2-4} = \frac{x}{x-3}$$

$$10 \quad \frac{x^2-4}{x^2-9} \cdot \frac{x^2-8x+15}{x^2-7x+10} = \frac{x+2}{x+3}$$

$$11 \quad \frac{7a}{6m^2} \cdot \frac{3m}{10n^2} \cdot \frac{5n^4}{14ax} = \frac{n^2}{8mx}$$

$$12 \quad \frac{2x-1}{x+1} - \frac{x-1}{x+1} + \frac{x}{x+1} = \frac{2x}{x+1}$$

$$13 \quad \frac{5a}{3} - \frac{3a}{4} = \frac{11a}{12}$$

$$14 \quad \frac{5x}{3} - \frac{x}{4} + \frac{7x}{6} - \frac{3x}{2} = \frac{13x}{12}$$

$$15 \quad \frac{x-2}{4} + \frac{3x+2}{6} = \frac{9x-2}{12}$$