

$$\frac{x^4}{xy} \cdot \frac{x+y}{xy} = \frac{x^2y + xy^2}{x^2y^2}$$

$$\frac{x^4}{xy} \cdot \frac{x+y}{xy} = \frac{xy + y^2}{xy^2}$$

$$\frac{x^2}{xy} \cdot \frac{x+y}{xy} = \frac{x^3 + x^2y}{x^3y}$$

$$\frac{x^2}{xy} \cdot \frac{x+y}{xy} = \frac{2x + 2y}{2xy}$$

$$\frac{-1}{xy} \cdot \frac{x+y}{xy} = \frac{-x-y}{-xy}$$

$$\frac{x+1}{x+1} \cdot \frac{x-1}{x+1} = \frac{x^2-1}{(x+1)^2}$$

$$\frac{x-1}{x+1} \cdot \frac{x-1}{x+1} = \frac{(x-1)^2}{x^2-1}$$

$$\frac{x}{x+1} \cdot \frac{x-1}{x+1} = \frac{x^2-x}{x^2+x}$$