

Zjednodušte

a)

$$\frac{2xy}{x+2y} \cdot \frac{3x+6y}{6x}$$

b)

$$\frac{3x^2y}{6x-y} \cdot \frac{3y-18x}{x+y}$$

Zjednodušte - řešení

a)

$$\frac{2xy}{x+2y} \cdot \frac{3x+6y}{6x}$$

$$\frac{2xy}{x+2y} \cdot \frac{3x+6y}{6x} =$$

$$= \frac{y}{x+2y} \cdot \frac{3 \cdot (x+2y)}{3} =$$

$$= \underline{\underline{y}} \quad \begin{array}{l} \underline{\underline{x \neq 0}} \\ x+2y \neq 0 \\ \underline{\underline{x \neq -2y}} \end{array}$$

b)

$$\frac{3x^2y}{6x-y} \cdot \frac{3y-18x}{x+y}$$

$$\frac{3x^2y}{6x-y} \cdot \frac{3y-18x}{x+y} =$$

$$= \frac{3x^2y}{x+y} \cdot \frac{-3 \cdot (6x-y)}{6x-y} =$$

$$= -9 \cdot \frac{x^2y}{x+y} \quad \begin{array}{l} 6x-y \neq 0 \\ \underline{\underline{y \neq 6x}} \\ x+y \neq 0 \\ \underline{\underline{x \neq -y}} \end{array}$$