

**Đề bài**

Làm tính trừ các phân thức sau:

$$\begin{array}{ll} \text{a) } \frac{4x-1}{3x^2y} - \frac{7x-1}{3x^2y}; & \text{b) } \frac{4x+5}{2x-1} - \frac{5-9x}{2x-1}; \\ \text{c) } \frac{11x}{2x-3} - \frac{x-18}{3-2x}; & \text{d) } \frac{2x-7}{10x-4} - \frac{3x+5}{4-10x}. \end{array}$$

**Đáp án lời giải**

$$\begin{aligned} \text{a) } \frac{4x-1}{3x^2y} - \frac{7x-1}{3x^2y} &= \frac{4x-1}{3x^2y} + \frac{-(7x-1)}{3x^2y} \\ &= \frac{4x-1-7x+1}{3x^2y} = \frac{-3x}{3x^2y} = -\frac{1}{xy}. \end{aligned}$$

$$\begin{aligned} \text{b) } \frac{4x+5}{2x-1} - \frac{5-9x}{2x-1} &= \frac{4x+5}{2x-1} + \frac{-(5-9x)}{2x-1} \\ &= \frac{4x+5-5+9x}{2x-1} = \frac{13x}{2x-1} \end{aligned}$$

$$\begin{aligned} \text{c) } \frac{11x}{2x-3} - \frac{x-18}{3-2x} &= \frac{11x}{2x-3} + \frac{x-18}{-(3-2x)} \\ &= \frac{11x}{2x-3} + \frac{x-18}{2x-3} = \frac{11x+x-18}{2x-3} = \frac{12x-18}{2x-3} = 6 \end{aligned}$$

$$\begin{aligned} \text{d) } \frac{2x-7}{10x-4} - \frac{3x+5}{4-10x} &= \frac{2x-7}{10x-4} + \frac{3x+5}{-(4-10x)} \\ &= \frac{2x-7}{10x-4} + \frac{3x+5}{10x-4} = \frac{2x-7+3x+5}{10x-4} = \frac{5x-2}{2(5x-2)} = \frac{1}{2} \end{aligned}$$