

Упростите выражение:

$$\textcircled{1} \frac{3a}{a-4} - \frac{a+2}{2a-8} \cdot \frac{96}{a^2+2a} = \frac{3a}{a-4} - \frac{\cancel{a+2}}{2(a-4)} \cdot \frac{\cancel{96} 48}{a(\cancel{a+2})} =$$

$$= \frac{3a}{a-4} - \frac{48}{a-4} = \frac{3a-48}{a-4} = \frac{3(a-16)}{a-4}$$

$$\textcircled{2} \left(\frac{a+7}{a-7} - \frac{a-7}{a+7} \right) \cdot \frac{14a}{49-a^2} = \left(\frac{(a+7)(a+7) - (a-7)(a-7)}{(\cancel{a-7})(a+7)} \right) \cdot \frac{\cancel{a-7}(a+7)}{14a} =$$

$$= \frac{a^2+14a+49 - a^2+14a-49}{14a} = \frac{28a}{14a} = 2$$