

$$a) \frac{3r-2s}{9r^2+12rs+4s^2} \cdot (3r+2s) = \frac{3r-2s}{3r+2s}$$

$$b) \frac{5a^2+10a}{4a^2} \cdot \frac{4-2a}{a^2-4} = \frac{-5}{2a}$$

$$10) \frac{x+4}{x-3} - \frac{x+5}{x-2} = \frac{7}{(x-3)(x-2)} \quad 12)$$

$$\left(\frac{3}{1+x} - 1\right) \left(\frac{3}{2-x} - 1\right) = 1$$

$$c) \frac{x^2}{xy+y^2} + \frac{x^2+y^2}{xy} - \frac{y^2}{x^2+xy} = \frac{2x+xy+y^2}{y(x+y)} \quad 14)$$

$$\left(\frac{1}{a+1} - \frac{2a}{a^2-1}\right) \cdot \left(\frac{1}{a} - 1\right) = \frac{1}{a}$$

$$13) \frac{2x}{x+y} + \frac{3y}{x-y} - \frac{2x^2+3y^2}{x^2-y^2} = \frac{xy}{(x+y)(x-y)} \quad 15)$$

$$\left(\frac{x-1}{x-2} - \frac{x}{x-1}\right) \cdot \left(x - \frac{3x}{x+1}\right) = \frac{x}{(x+1)(x-1)}$$

$$14) \frac{a-2b}{a+b} - \frac{2a-b}{b-a} - \frac{2a^2}{a^2-b^2} = \frac{3a^2-2ab+b^2}{(a+b)(a-b)}$$