

$$\begin{aligned}
 1) \quad & \left(\frac{x^{\cancel{1}2}}{y} - \frac{x^{\cancel{1}1}y}{x} \right) \cdot \frac{y}{x+y} - 1 = \left(\frac{x^2 - y^2}{xy} \right) \cdot \frac{y}{x+y} - 1 = \\
 & = \frac{(x-y)(x+y)}{xy} \cdot \frac{\cancel{y}}{\cancel{x+y}} - 1 = \frac{x-y}{x} - 1 = \\
 & = \frac{x-y}{x} - \frac{x}{x} = \frac{x-y-x}{x} = -\frac{y}{x}
 \end{aligned}$$

$$\begin{aligned}
 2) \quad & \left(\frac{a^2}{a+b} - \frac{a^3}{a^2+2ab+b^2} \right) \left(\frac{1^{\cancel{1}2}}{ab} + \frac{1^{\cancel{1}1}b}{a^2} \right) = \\
 & = \left(\frac{a^2 \cancel{(a+b)}}{a+b} - \frac{a^3}{(a+b)^2} \right) \left(\frac{a+b}{a^2b} \right) = \frac{a^2(a+b) - a^3}{(a+b)^2} \cdot \frac{a+b}{a^2b} = \\
 & = \frac{a^3 + a^2b - a^3}{a^2b} = \frac{a^2b}{a^2b} = 1
 \end{aligned}$$