

$$1. \frac{\frac{1}{2} + \frac{1}{3}}{1 - \frac{1}{6}} = 1$$

$$2. \frac{\frac{2}{3} - \frac{5}{6}}{\frac{1}{3} + \frac{2}{9}} = -\frac{3}{10}$$

$$3. \frac{z - \frac{1}{z}}{1 + \frac{1}{z}} = z - 1$$

$$4. \frac{1 - xy^{-1}}{x^{-1} - y^{-1}} = x$$

$$5. \frac{a^{-2} - b^{-2}}{a^{-1} + b^{-1}} = \frac{b-a}{ab}$$

$$6. \frac{\frac{1}{p^2} - \frac{1}{q^2}}{\frac{2}{p^2} - \frac{1}{pq} - \frac{1}{q^2}} = \frac{q+p}{2q+p}$$

$$7. \frac{x^{-2} - x^2}{x^{-1} - x} = \frac{1+x^2}{x}$$

$$8. \frac{\frac{1}{x} - \frac{1}{y}}{\frac{y}{x} - \frac{x}{y}} = \frac{1}{x+y}$$

$$9. \frac{1 + \frac{1}{t-1}}{1 - \frac{1}{t+1}} = \frac{t+1}{t-1}$$

$$10. \frac{\frac{1}{x} + \frac{1}{x+1}}{\frac{1}{x} - \frac{1}{x+1}} = 2x + 1$$

$$11. \frac{\frac{1}{1-t} - \frac{1}{t}}{1 + \frac{1}{t}} = \frac{(2t-1)(t+1)}{t-1}$$

$$12. \frac{\frac{u+v}{u-v} - \frac{u-v}{u+v}}{\frac{u+v}{u-v} + \frac{u-v}{u+v}} = \frac{2uv}{u^2+v^2}$$