

$$1. \frac{1 - \frac{v^2}{c^2}}{1 + \frac{v}{c}} \cdot \frac{v}{c} + \sqrt{\frac{(c-v)(c^2 - v^2)}{c^2}} \cdot \frac{1}{c+v}$$

$$2. \frac{2}{1 + \frac{3}{x}} + \frac{\frac{(x+3)^2 - (c-3)^2 - (x+c)(x-c)}{x+c}}{\frac{2x^2 - 18}{2x-6}}$$

$$3. \frac{\frac{p^3 - 2p - 1}{p^2 - 1} - p}{p + \frac{2p^2}{1-p}} + \frac{\frac{1}{1-p}}{(1-p)^2}$$

$$4. \frac{1 + \frac{2}{n}}{1 - \frac{4}{n^2}} \cdot \left[ \left( \frac{a}{n} - 1 \right)^2 - \left( \frac{a}{n} + 1 \right)^2 \right]$$