

$$2[\operatorname{artanh}(2v)-\operatorname{artanh}(v)]$$

$$\operatorname{arsinh}\frac{4v}{1-4v^2}-\operatorname{arsinh}\frac{2v}{1-v^2}$$

$$\ln \frac{1+2v}{1-2v}+\ln \frac{1-v}{1+v}$$

$$\ln \frac{1+v-2v^2}{1-v-2v^2}$$

$$\ln \left[\frac{4v}{1-4v^2} + \sqrt{\left(\frac{4v}{1-4v^2} \right)^2 + 1} \right] - \ln \left[\frac{2v}{1-v^2} + \sqrt{\left(\frac{2v}{1-v^2} \right)^2 + 1} \right]$$

$$\operatorname{arcosh}\frac{1+4v^2}{1-4v^2}-\operatorname{arcosh}\frac{1+v^2}{1-v^2}$$

$$\operatorname{artanh}\left[1+\left(\frac{1-4v^2}{4v}\right)^2\right]^{-1/2}-\operatorname{artanh}\left[1+\left(\frac{1-v^2}{2v}\right)^2\right]^{-1/2}$$

$$\frac{c}{g}\ln\left(\frac{\sqrt{c^2+g^2\left(\frac{4v}{g\left(1-4\frac{v^2}{c^2}\right)}\right)^2}+g\frac{4v}{g\left(1-4\frac{v^2}{c^2}\right)}}{\sqrt{c^2+g^2\left(\frac{2v}{g\left(1-\frac{v^2}{c^2}\right)}\right)^2}+g\frac{2v}{g\left(1-\frac{v^2}{c^2}\right)}}\right)$$