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$$g(x) = -\frac{x}{1+x^2} \left(-\frac{x}{1+x^2} \right) = -\frac{1}{1+x^2} \ln \left(\frac{1+x^2}{1+x^2} \right) = \frac{1}{\sqrt{1+x^2}}$$

$$\frac{y - \frac{1}{2} \ln(1+x^{2})}{1+x^{2}} = \frac{x}{-\frac{1}{2} \ln(1+x^{2})} dx = \frac{-\frac{1}{2} \ln(1+x^{2})}{1+x^{2}} dx = \frac{-\frac{1}{2} \ln(1$$