$$\int_{z\sqrt{1+z^{2}}}^{1+z^{2}} dz = \frac{1}{2} \sqrt{1+z^{2}} + \frac{1}{2} \int_{1}^{1} I_{1} \int_{2}^{1} z \cdot z = 1/t, dz = 1/t \int_{1}^{1+z^{2}} dz = -1/t \int_{1}^{1+z^{$$