Wednesday, January 17, 2024

7:34 AM

$$\int_{0}^{\infty} \frac{1}{(1+x)\sqrt{1x}} dx \qquad x = \frac{2}{1-2}$$

$$\int_{0}^{\infty} \frac{1}{(1+x)\sqrt{1x}} dx \qquad dx = \frac{dz}{(1-z)^{2}}$$

$$((1-z)x+z)\sqrt{\frac{z}{1-2}}(1-z)$$

$$= \sqrt{2}(1-z)$$

$$= \sqrt{2}(1-z)$$