

$$-1 \Big|_{-\frac{\pi}{2}}^{\frac{\pi}{2}}$$

$$\frac{1}{\sqrt{1-x^2}}$$

$$\sqrt{1-y^2} = y_c = y_s$$

$$1 = \frac{x}{\sqrt{1-x^2}} \frac{x}{\sqrt{1-x^2}} = \frac{x}{\sqrt{1-x^2}} \sqrt{1-x^2} = \frac{x}{\sqrt{1-x^2}}$$