

$$\int \frac{\cos t \, dt}{\sqrt{1+\sin^2 t}}$$

$$\boxed{\begin{aligned} U &= \sin t \\ dU &= \cos t \, dt \end{aligned}}$$

$$\int \frac{1}{\sqrt{1+U^2}} dU$$

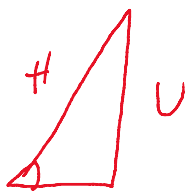
$$\int \frac{\sec^2 \theta}{\sqrt{1+\tan^2 \theta}} = \int \frac{\sec^2 \theta}{\sqrt{\sec^2 \theta}}$$

$$U = \sqrt{1} \cdot \tan \theta$$

$$dU = \sec^2 \theta \, d\theta$$

$$\boxed{\sec^2 \theta = \tan^2 \theta + 1} \quad \int \frac{\sec^2 \theta}{\sec \theta} d\theta = \int \sec \theta \, d\theta$$

$$\ln |\sec \theta + \tan \theta| + C$$



$$\begin{aligned} H^2 &= U^2 + 1 \\ H &= \sqrt{U^2 + 1} \end{aligned}$$

$$s = \frac{0}{H} \quad c = \frac{A}{H} \quad \pm = \frac{0}{A}$$

$$c = \frac{1}{\sqrt{U^2 + 1}} \quad T = \frac{U}{1}$$

$$\ln |\sqrt{U^2 + 1} + \frac{U}{1}| + C$$

$$\ln |\sqrt{\sin^2 t + 1} + \frac{\sin t}{1}| + C$$

$$U = 1 \cdot \tan \theta$$

$$\boxed{\frac{U}{1} = \tan \theta}$$

$$\sec \theta = \frac{1}{\cos \theta}$$

$$\sec \theta = \frac{1}{\frac{1}{\sqrt{U^2 + 1}}}$$

$$\boxed{\sec \theta = \sqrt{U^2 + 1}}$$

$$\left(\ln |\sqrt{\sin^2 \frac{\pi}{2} + 1} + \sin \frac{\pi}{2}| \right) - \left(\ln |\sqrt{\sin^2 0 + 1} + \sin 0| \right)$$

0,88137

$$- 0 = 0,88137$$

2 11 0 + 1 2 0 11