

Definite integral example

Calculate definite integral of function for border values

$$\int_0^{\frac{\pi}{2}} \cos x \cdot dx$$

$$\int_0^{\frac{\pi}{2}} \cos x \cdot dx = [\sin x]_0^{\frac{\pi}{2}}$$

$$[\sin x]_0^{\frac{\pi}{2}} = \sin \frac{\pi}{2} - (\sin 0) = 1 - 0 = 1$$