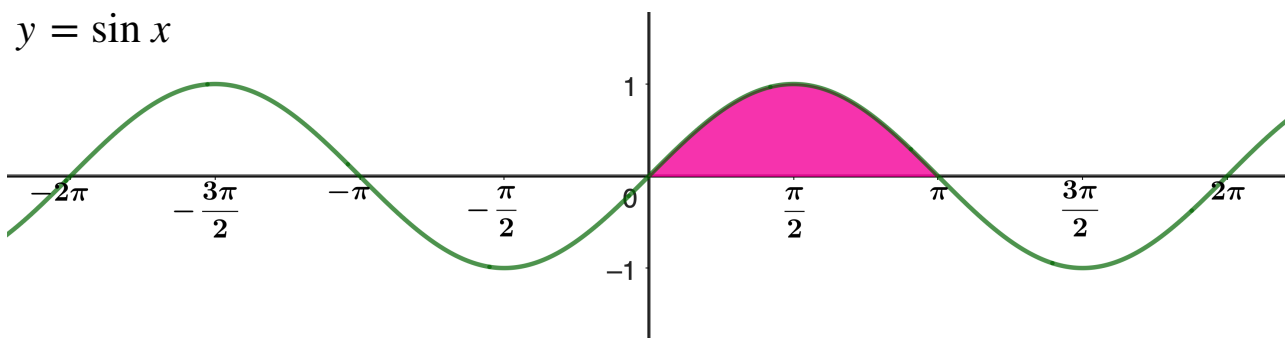
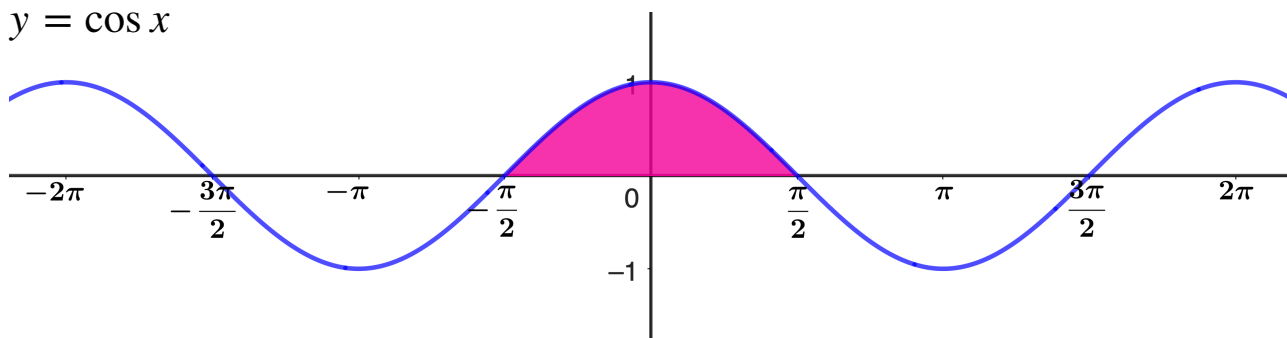


## Integrals of circular functions

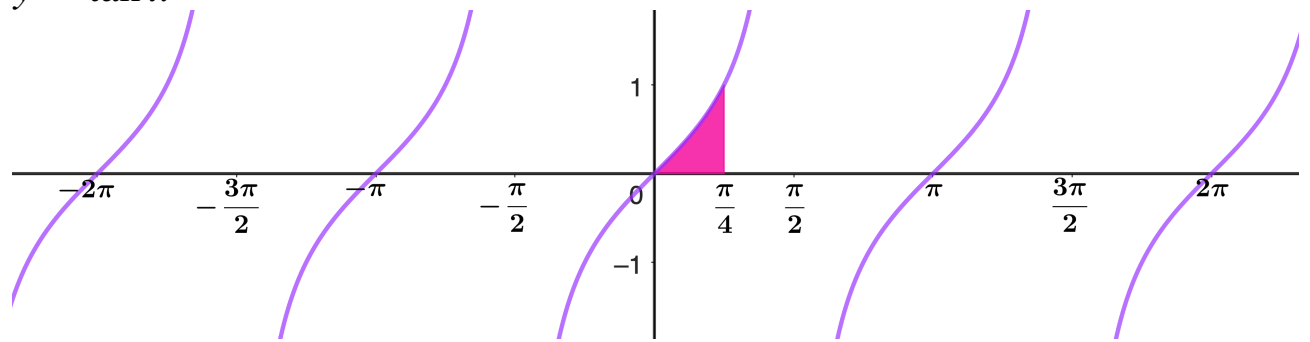
Find these areas



$$y = \cos x$$

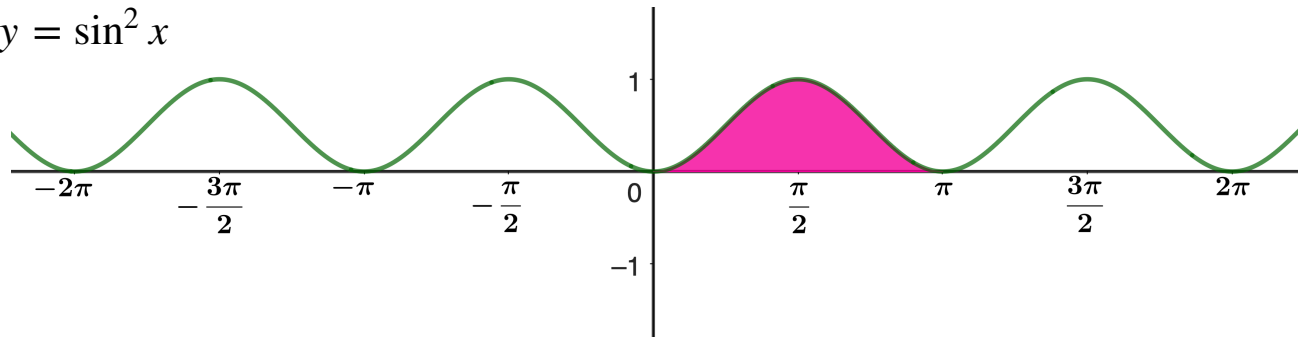


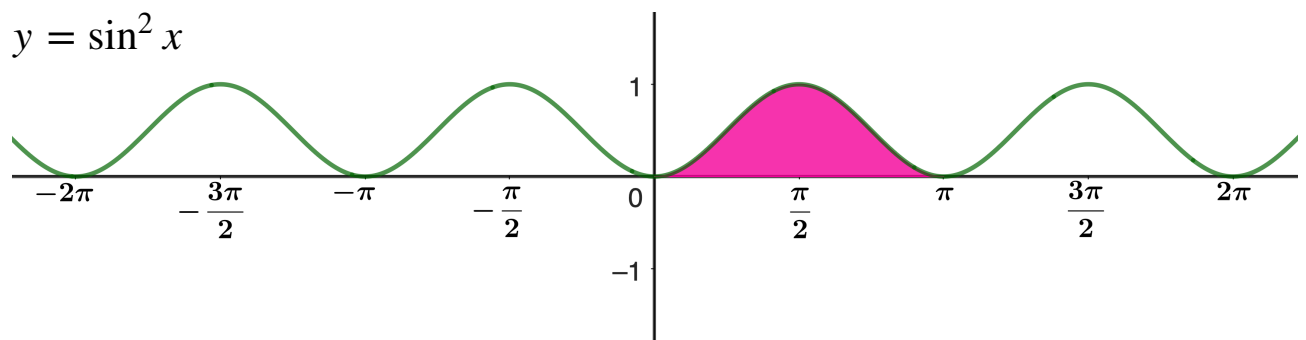
$$y = \tan x$$





$$y = \sin^2 x$$

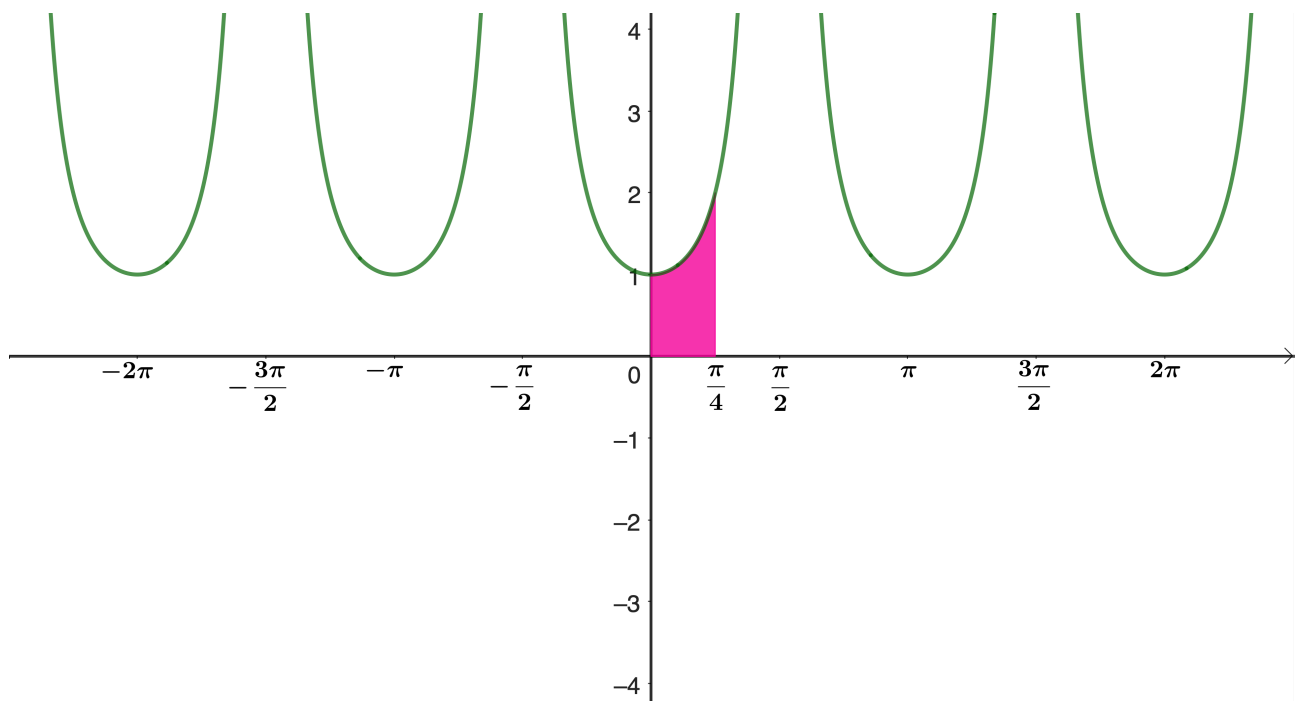


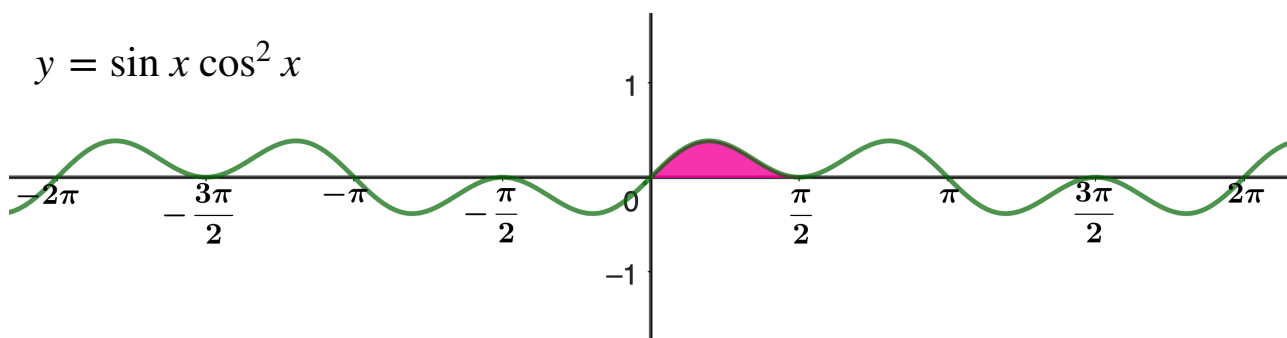


$$u = \sin x \quad \frac{dv}{dx} = \sin x$$

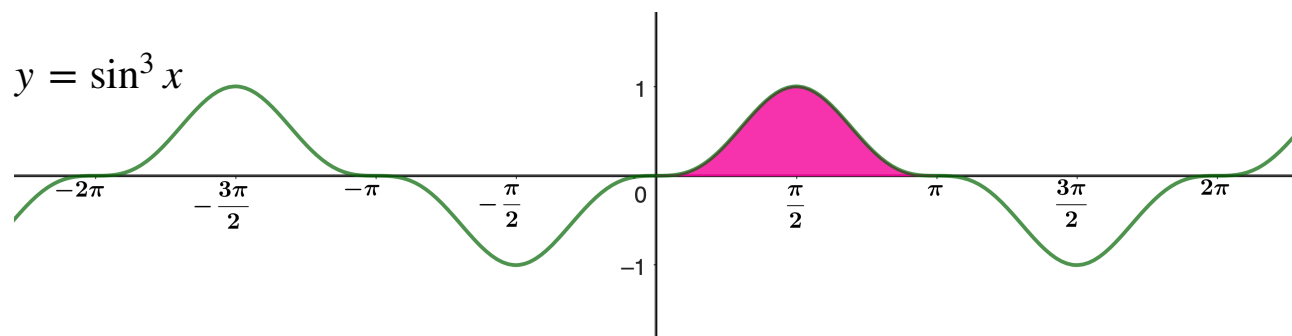
$$\frac{du}{dx} = \cos x \quad v = -\cos x$$

$$y = \sec^2 x$$

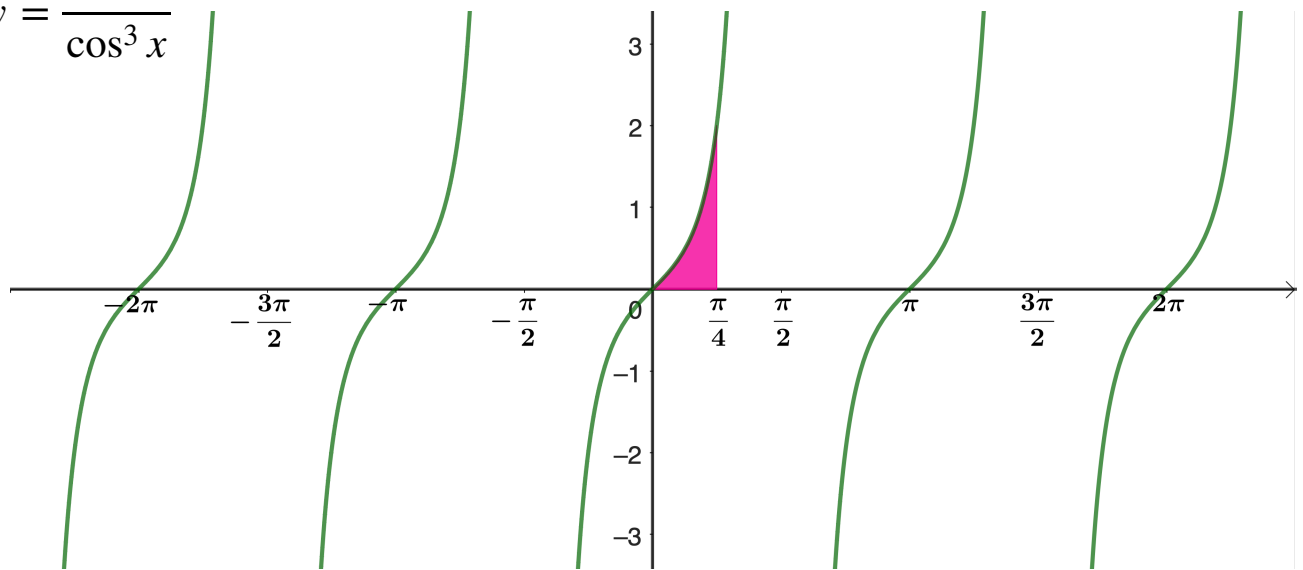








$$y = \frac{\sin x}{\cos^3 x}$$



Here is an integral that is quite a bit more of a challenge:

$$\int \sec x \, dx$$