

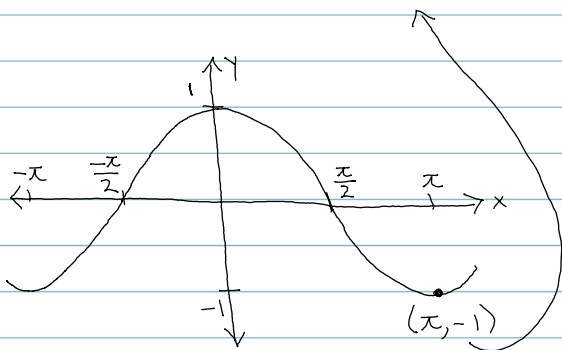
## Introduction to Trigonometric Functions

Find the equation of the line tangent to the curve  $y = \sin(x)$  at  $(\pi, 0)$ . Then, sketch both the curve and the tangent line.

$$\frac{d}{dx} \sin x = \cos x$$

$$\frac{d}{dx} \cos x = -\sin x$$

$$\text{slope} = \cos(\pi) = -1$$



tangent line:  $y = -(x - \pi)$ .

