

Trigonometric Limits

Here are some limits you may wish to memorize, particularly the last two – they come up again and again in a variety of classes.

$$\lim_{\theta \rightarrow 0} (\sin(\theta)) = 0$$

$$\lim_{\theta \rightarrow 0} (\cos(\theta)) = 1$$

$$\lim_{\theta \rightarrow 0} \left(\frac{\sin(\theta)}{\theta} \right) = 1$$

$$\lim_{\theta \rightarrow 0} \left(\frac{\cos(\theta) - 1}{\theta} \right) = 0$$