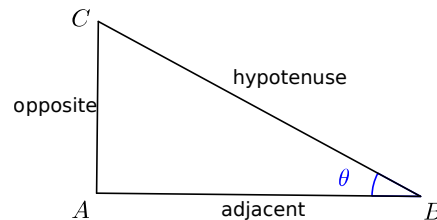


# Cosine (cos)

In a right-angled triangle, if one of the angles is  $\theta$ , then the *cosine* of  $\theta$  is the length of the side adjacent to  $\theta$ , divided by the length of the hypotenuse. That is,

$$\cos \theta = \frac{\text{adjacent}}{\text{hypotenuse}}.$$



Alternatively, and more generally,  $\cos \theta$  is the  $x$ -coordinate of a point  $P$  obtained by rotating the point  $(1,0)$  anti-clockwise about the origin through the angle  $\theta$ .

