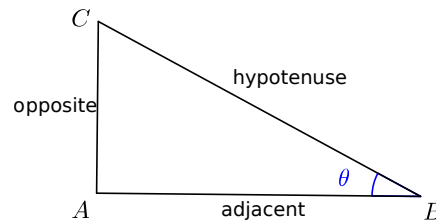


Cosine (cos)

In a right-angled triangle, if one of the angles is θ , then the *cosine* of θ is the length of the side adjacent to θ , 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 θ .

