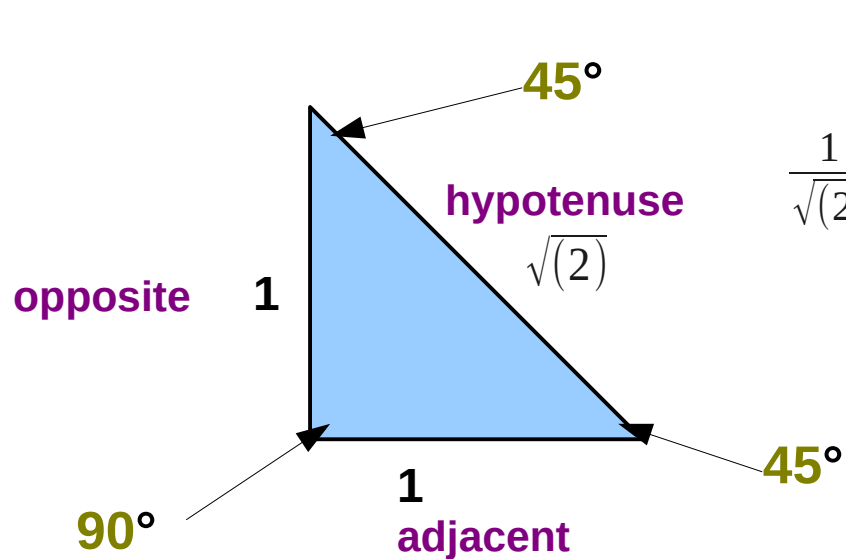
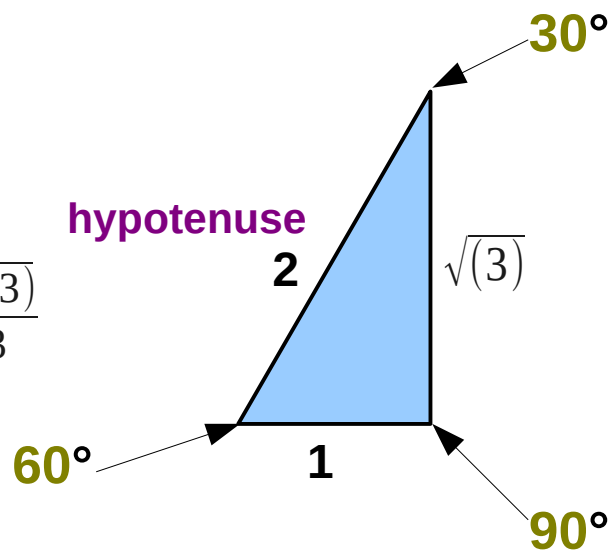




$$\frac{1}{\sqrt{2}} \cdot \frac{\sqrt{2}}{\sqrt{2}} = \frac{\sqrt{2}}{2}$$

$$\frac{1}{\sqrt{3}} \cdot \frac{\sqrt{3}}{\sqrt{3}} = \frac{\sqrt{3}}{3}$$



θ		trigonometric functions on θ					
degrees	radians	$\sin(\theta)$	$\cos(\theta)$	$\tan(\theta)$	$\cot(\theta)$	$\sec(\theta)$	$\csc(\theta)$
30°	$\pi/6$	$\frac{1}{2}$	$\frac{\sqrt{3}}{2}$	$\frac{\sqrt{3}}{3}$	$\sqrt{3}$	$\frac{2\sqrt{3}}{3}$	2
45°	$\pi/4$	$\frac{\sqrt{2}}{2}$	$\frac{\sqrt{2}}{2}$	1	1	$\sqrt{2}$	$\sqrt{2}$
60°	$\pi/3$	$\frac{\sqrt{3}}{2}$	$\frac{1}{2}$	$\sqrt{3}$	$\frac{\sqrt{3}}{3}$	2	$\frac{2\sqrt{3}}{3}$

$\sin(\theta)$

$$\frac{\text{opposite}}{\text{hypotenuse}}$$

$\cos(\theta)$

$$\frac{\text{adjacent}}{\text{hypotenuse}}$$

$\tan(\theta)$

$$\frac{\text{opposite}}{\text{adjacent}}$$

$\cot(\theta)$

$$1 / \tan(\theta)$$

$$\frac{\text{adjacent}}{\text{opposite}}$$

$\sec(\theta)$

$$1 / \cos(\theta)$$

$$\frac{\text{hypotenuse}}{\text{adjacent}}$$

$\csc(\theta)$

$$1 / \sin(\theta)$$

$$\frac{\text{hypotenuse}}{\text{opposite}}$$