

Words	Symbol	Definition
sine θ		
cosine θ		
tangent θ		
cosecant θ		
secant θ		
cotangent θ		

Example 1: Triangle ABC has a right angle at angle B. BC = 8 cm and AB = 15 cm. Find the values of all six trig functions for angle A.

sin A = _____ csc A = _____

cos A = _____ sec A = _____

tan A = _____ cot A = _____

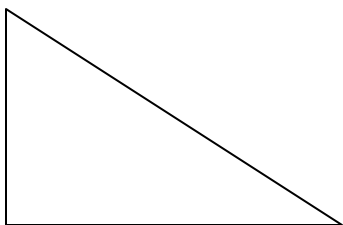
Example 2: Triangle DFE has a right angle at angle F. DF = 3 cm and EF = 7 cm. Find the values of the six trig ratios for $\angle E$.

sin E = _____ csc E = _____

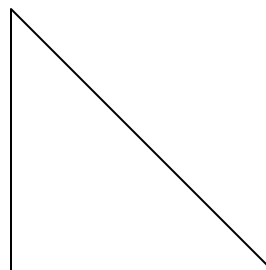
cos E = _____ sec E = _____

tan E = _____ cot E = _____

30-60-90 Triangles



45-45-90 Triangles



θ	$\sin \theta$	$\cos \theta$	$\tan \theta$	$\csc \theta$	$\sec \theta$	$\cot \theta$
30°						
45°						
60°						

Cofunctions:

$$\sin \theta = \underline{\hspace{2cm}}$$

$$\cos \theta = \underline{\hspace{2cm}}$$

$$\tan \theta = \underline{\hspace{2cm}}$$

$$\cot \theta = \underline{\hspace{2cm}}$$

$$\sec \theta = \underline{\hspace{2cm}}$$

$$\csc \theta = \underline{\hspace{2cm}}$$