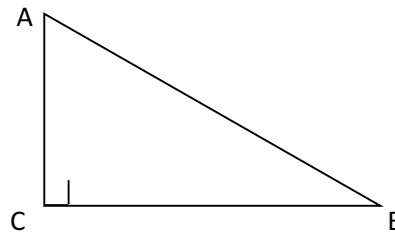


TRIGONOMETRY

Objectives: 1) I can apply the sine, cosine, and tangent ratios to find missing sides lengths

The 2 *acute* angles of a *right* triangle each have...



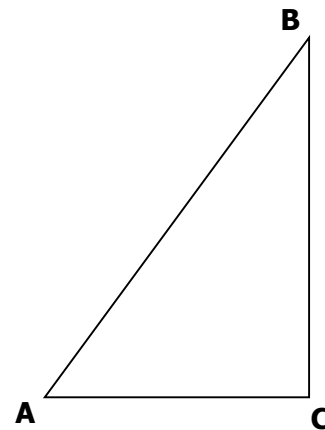
Trigonometric Ratio: the ratio of 2 sides of a right triangle.

a number

has special name(s)

helps find a missing side or angle of a right triangle

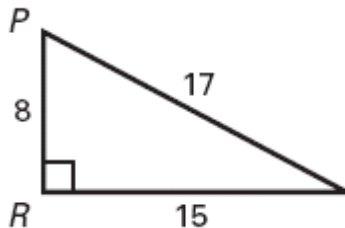
Sine	
Cosine	
Tangent	



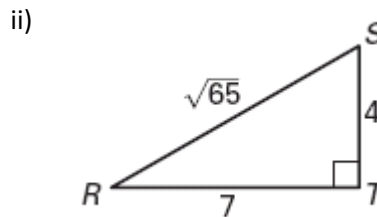
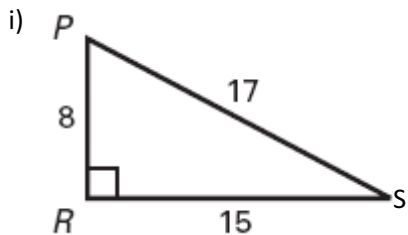
S O H C A H T O A

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Find the sine, cosine, and tangent of $\angle P$.



Find the sine, cosine, and tangent of $\angle S$ for the first triangle and $\angle R$ of the second triangle. Express each value as a simplified fraction.



Use your calculator to find the following trig ratios (round to the nearest tenth).

$\sin 90 =$

B) $\cos 15 =$

C) $\tan 73 =$

Solve the following for the variable (round to the nearest tenth).

$\sin 23 = \frac{x}{15}$

B) $\cos 74 = \frac{w}{5}$

C) $\tan 60 = \frac{3}{y}$

D) $\sin 80 = \frac{18}{x}$

E) $\cos 12 = \frac{10}{y}$

F) $\tan 68 = \frac{z}{43}$

Use trigonometric ratios to find the value of the variables. Round to the nearest hundredth.

