

SOHCAHTOA: Missing Angles

Geometry

Directions: Find the missing angle to the nearest degree.

1)  $\sin P = \frac{6}{10}$

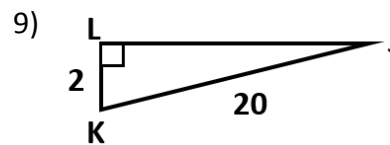
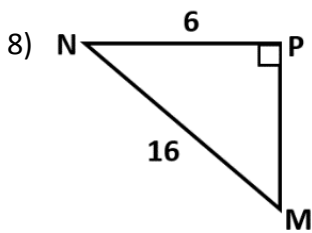
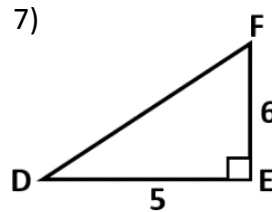
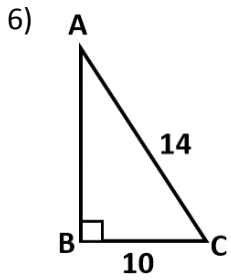
2)  $\cos M = \frac{12}{13}$

3)  $\tan P = \frac{3}{4}$

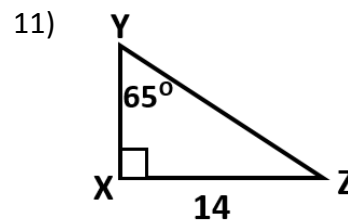
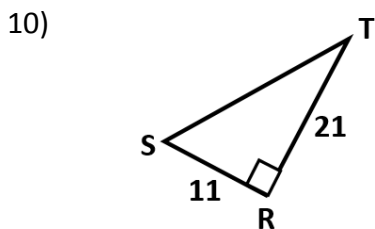
4)  $\cos O = \frac{15}{16}$

5)  $\sin O = \frac{1}{2}$

Directions: Find each angle. Round to the nearest degree.



Directions: Find all the missing sides and angles on the triangle.



**Directions: Draw a right triangle with points A, B, & C to represent each set of given information. Then find all missing sides and angles. Assume C is the right angle.**

12)  $\sin A = \frac{3}{5}$

13)  $\cos B = \frac{12}{25}$

14)  $\tan A = \frac{13}{12}$

15)  $\sin B = \frac{2}{3}$

**Directions: Draw a triangle to represent the given situation. Then, find each missing side.**

16) M, O, and N are the vertices of a right triangle.  $MO = 25$  &  $MN = 20$ . MO is the hypotenuse. What is  $m\angle M$ ?

17) J, K, and L are the vertices of a right triangle. Angle J is the right angle.  $JK = 12$  and JL is 2 times the size of JK. What is  $m\angle K$ ?