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 = $\frac{1}{2}$
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Directions: Find each angle. Round to the nearest degree.



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



10)



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 $m \angle K$?