

Inverse Trigonometric Functions

Name: _____

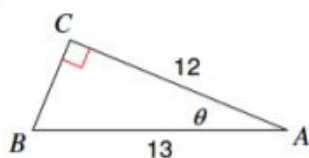
$$\sin^{-1} \left(\frac{\text{opposite}}{\text{hypotenuse}} \right) = \theta$$

$$\cos^{-1} \left(\frac{\text{adjacent}}{\text{hypotenuse}} \right) = \theta$$

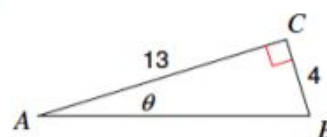
$$\tan^{-1} \left(\frac{\text{opposite}}{\text{adjacent}} \right) = \theta$$

Directions: For problems 1 – 8, find the missing angle measure using inverse trig functions. Round your answers to the nearest tenth.

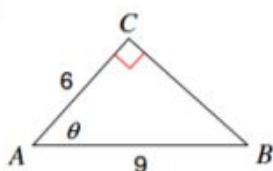
1)



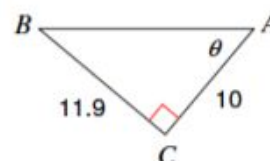
2)



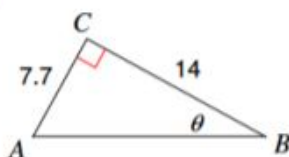
3)



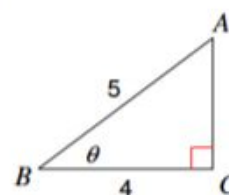
4)



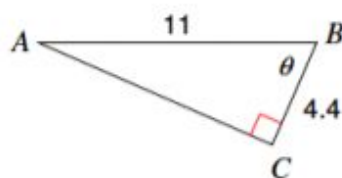
5)



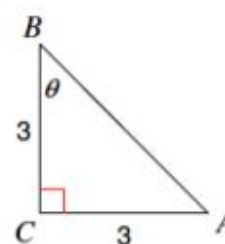
6)



7)



8)

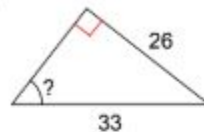


Find the measure of the indicated angle to the nearest degree.

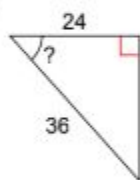
19)



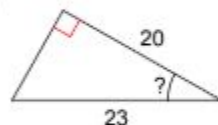
20)



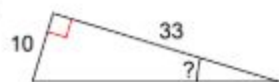
21)



22)



23)



24)



Find each angle measure to the nearest degree.

25) $\sin X = 0.7547$

26) $\sin A = 0.4540$

27) $\cos Y = 0.5736$

28) $\cos B = 0.5000$

29) $\tan B = 0.6249$

30) $\tan C = 0.1405$