

Geometry

9.6 Solving Right Triangles

Solve a Triangle

Solve a triangle means to find _____ the unknown _____ and _____.

- Can be done for a _____ triangle if you know
 - _____
 - _____
- Use _____, _____, _____, _____ Theorem, and _____ Theorem

Inverse Trigonometric Ratios

Used to find measures of _____ when you know the _____.

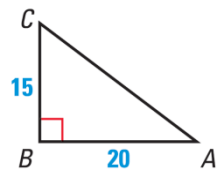
$$\sin^{-1} \text{_____} = \theta$$

$$\cos^{-1} \text{_____} = \theta$$

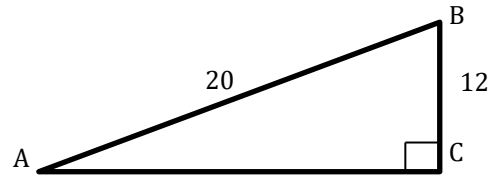
$$\tan^{-1} \text{_____} = \theta$$

Find $m\angle D$ to the nearest tenth if $\sin D = 0.54$

Find $m\angle C$ to the nearest tenth.



Solve a right triangle that has a 12-inch leg and a 20-inch hypotenuse.



Assignment: 487 #2, 4, 6, 8, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 30, 33, 34, 35, 39 = 20 total