Geometry 7.7

7.7 Solve 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 ____________.

\[
\sin^{-1} \theta = \theta \\
\cos^{-1} \theta = \theta \\
\tan^{-1} \theta = \theta \\
\]

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 40° angle and a 20 inch hypotenuse.

Assignment: 485 #2-28 even, 32-38 even, 43, 44-48 even = 22
Extra Credit: 489 #2, 4 = +2

Created by Richard Wright – Andrews Academy

To be used with Larson Geometry, 2011