Geometry

7.7 Solve Right Triangles

# Solve a Triangle

sides

angles

all

Solve a triangle means to find \_\_\_\_\_\_\_\_\_ the unknown \_\_\_\_\_\_\_\_\_\_\_\_\_ and \_\_\_\_\_\_\_\_\_\_.

right

* Can be done for a \_\_\_\_\_\_\_\_\_ triangle if you know

2 sides

* + \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1 side and 1 acute angle

* + \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Angle Sum

Pythagorean

tan

cos

sin

* Use \_\_\_\_\_\_, \_\_\_\_\_\_, \_\_\_\_\_\_, \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Theorem, and \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Theorem

# Inverse Trigonometric Ratios

sides

angles

Used to find measures of \_\_\_\_\_\_\_\_\_\_\_\_\_ when you know the \_\_\_\_\_\_\_\_\_\_\_\_\_.

hyp

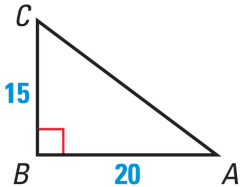
opp

hyp

adj

Find to the nearest tenth if

Find to the nearest tenth.



B

C

A

20

40°

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