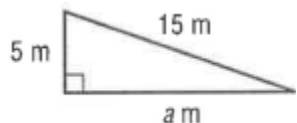


I. Pythagorean Theorem

1. Find the missing side length



2. Find the missing side length in the right triangle ABC.

Let c represent the length of the hypotenuse.

$a = 7$ inches

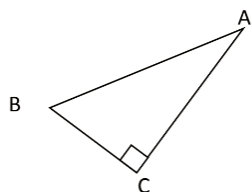
$b = 24$ inches

3. Ashley jogged 3.4 miles east, then 5.7 miles south. How far is Ashley from her starting point?

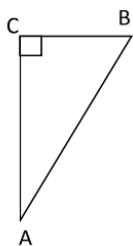
4. A 31 foot support wire is attached from the top of a 25 foot telephone pole to a point on the ground. How far from the base of the pole does the wire meet the ground?

II. Labeling Sides – Using the reference angle provided, label each side as O (opposite), A (adjacent), or H (hypotenuse).

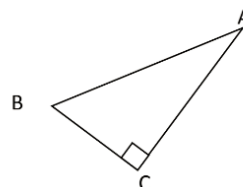
1. Reference Angle: A



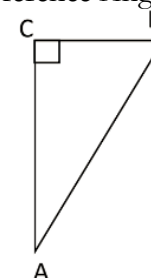
2. Reference Angle: A



3. Reference Angle: B

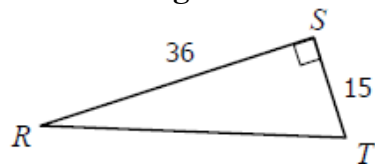


4. Reference Angle: B



III. Write the Trig Ratios in simplest form.

5.



$\sin R =$ _____

$\sin T =$ _____

$\cos R =$ _____

$\cos T =$ _____

$\tan R =$ _____

$\tan T =$ _____

6. Find the missing trig ratios for angle A and B if $\sin A = \frac{20}{29}$

