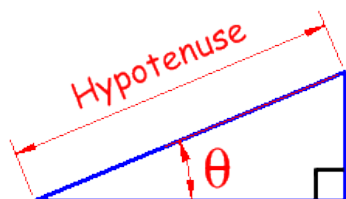


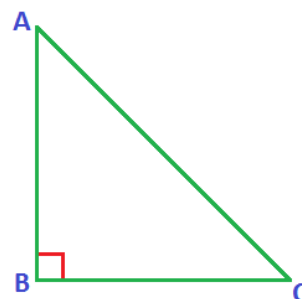
# Secondary 2 Honors – Trigonometry Unit

## Day 1 In Class Notes

Label each right triangle .



and



Trig Ratios

$$\sin \theta =$$

$$\cos \theta =$$

$$\tan \theta =$$

### SOHCAHTOA

1. Find the following Trigonometric Ratios for the triangle at the right.

$$\sin A =$$

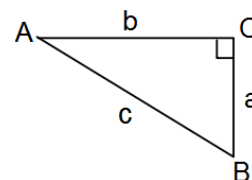
$$\cos A =$$

$$\tan A =$$

$$\sin B =$$

$$\cos B =$$

$$\tan B =$$



2. Find the following Trigonometric Ratios for the triangle at the right.

$$\sin A =$$

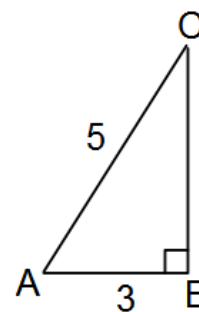
$$\cos A =$$

$$\tan A =$$

$$\sin C =$$

$$\cos C =$$

$$\tan C =$$



Work on problems 1 through 6

# Secondary 2 Honors – Trigonometry Unit

To find the measure of an angle, you must “undo” the sine, cosine, or tangent and to do this we use the \_\_\_\_\_ .

Arcsine is written as

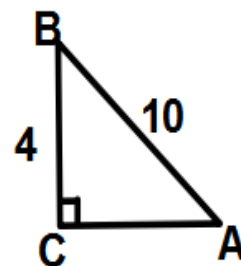
Arccosine is written as

Arctangent is written

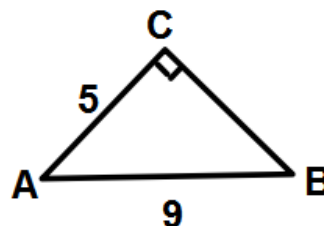
Note that  $^{-1}$  is not an exponent, it is the notation for the inverse trig function.

Find the missing angles for the given triangles

(a) Find  $m\angle A$  and  $m\angle B$

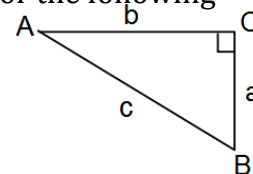


(b) Find  $m\angle A$  and  $m\angle B$



(c) For  $\triangle DEF$ ,  $\angle F = 90^\circ$ ,  $f = 13$ , and  $e = 5$ . Find  $\angle D$ .

Explain using words & pictures what is the difference between  $\sin A$  &  $\tan A$  for the following picture.



What is theta?

Work on problems 7-10.