

Assignment 6.1

Find the other two trig ratios based on the one that is given.

1. $\sin \theta = \frac{4}{5}$	$\cos \theta =$	$\tan \theta =$
2. $\sin \theta =$	$\cos \theta = \frac{5}{13}$	$\tan \theta =$
3. $\sin \theta =$	$\cos \theta =$	$\tan \theta = 1$
4. $\sin \theta = \frac{1}{2}$	$\cos \theta =$	$\tan \theta =$
5. $\sin \theta =$	$\cos \theta = \frac{9}{41}$	$\tan \theta =$
6. $\sin \theta =$	$\cos \theta =$	$\tan \theta = \sqrt{3}$

Sketch and label the following right triangles ( $\triangle ABC, m\angle C = 90^\circ$ ) given below, solve for all missing information. Round all answers to the hundredths place.

7.  $a = 17$  and  $b = 32$

$\angle A =$

$\angle B =$

$c =$

8.  $c = 47, B = 42^\circ$

$\angle A =$

$a =$

$b =$

9.  $b = 37, A = 15.2^\circ$

$\angle B =$

$a =$

$c =$

10.  $a = 23.9, c = 53.8$

$\angle A =$

$\angle B =$

$b =$