GPS Geo/Alg2/Stats   Name_____

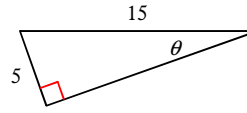# Unit 2 Quiz 1 Study Guide   Date_____ Period_____

Find the value of the trig function indicated.

1) $\sin \theta$

2) $\sin \theta$

In each triangle ABC, angle C is a right angle. Find the value of the trig function indicated.

3) Find $\sin A$ if $b = 6$, $a = 8$
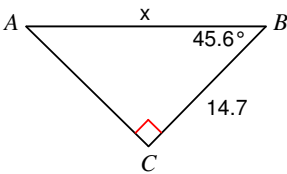
4) Find $\cos A$ if $c = 25$, $a = 24$

Find the value of the trig function indicated.

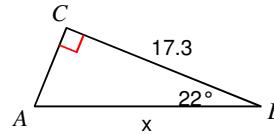5) Find $\tan \theta$ if $\sin \theta = \dfrac{\sqrt{2}}{2}$

6) Find $\cos \theta$ if $\tan \theta = \dfrac{4}{3}$

Find the measure of each side indicated. Round to the nearest tenth.
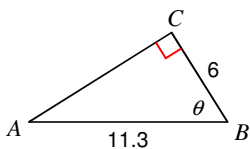
7)

8)

In each problem, angle C is a right angle. Find the side indicated to the nearest tenth.
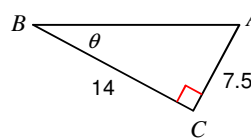
9) Find b if $m\angle B = 73°$, $c = 4$

10) Find a if $a = 10.5$, $m\angle A = 37°$

Find the measure of each angle indicated. Round to the nearest tenth.

11)

12)

In each problem, angle C is a right angle. Find the angle indicated to the nearest tenth.

13) Find $m\angle B$ if $c = 15$, $a = 8$

14) Find $m\angle B$ if $b = 4$, $a = 11$

Answers to Unit 2 Quiz 1 Study Guide (ID: 1)

1) $\dfrac{\sqrt{2}}{2}$

2) $\dfrac{1}{3}$

3) $\dfrac{4}{5}$

4) $\dfrac{7}{25}$

5) 1

6) $\dfrac{3}{5}$

7) 21

8) 18.7

9) 3.8

10) 10.5

11) 57.9°

12) 28.2°

13) 57.8°

14) 20°