Kuta Software - Infinite Geometry Name_____

Inverse Trigonometric Ratios

Date_____ Period____

Find each angle measure to the nearest degree.

1) sin B = 0.4848

29°

2) sin A = 0.5150

31°

3) cos A = 0.7431

42°

4) cos W = 0.6157

52°

5) cos A = 0.5878

54°

6) tan W = 19.0811

87°

7) cos A = 0.4226

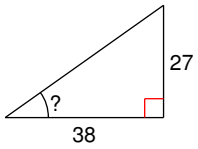
65°

8) tan W = 0.5317

28°

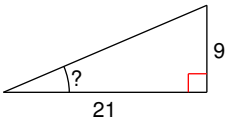
Find the measure of the indicated angle to the nearest degree.

9)



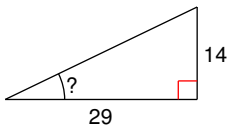
35°

10)



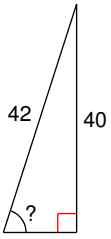
23°

11)



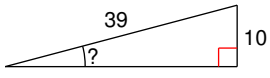
26°

12)



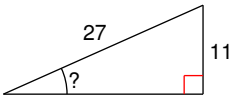
72°

13)

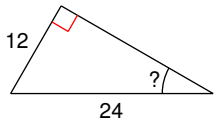


15°

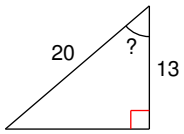
14)



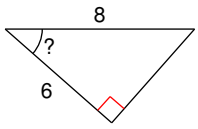
24°

15) 

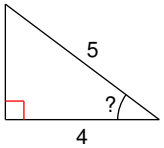
30°

16) 

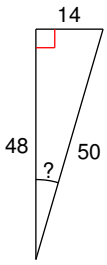
49°

17) 

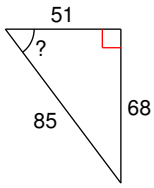
41°

18) 

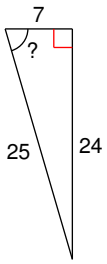
37°

19) 

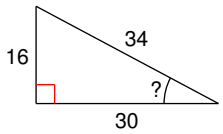
16°

20) 

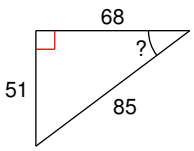
53°

21) 

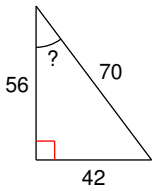
74°

22) 

28°

23) 

37°

24) 

37°

Critical thinking questions:

25) Find an angle x where $\sin x = \cos x$.

45°

26) Draw and label all three sides of a right triangle that has a 40° angle and a hypotenuse of 10 cm.

Sides are: 10 cm, 6.4 cm, and 7.7 cm.