Analytic Geometry Name_____ ID: 1

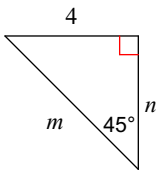
© 2017 Kuta Software LLC. All rights reserved.

TRIG Review

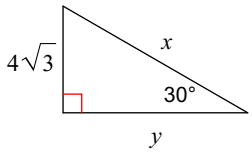
Date_____ Period____

Find the missing side lengths. Leave your answers as radicals in simplest form.

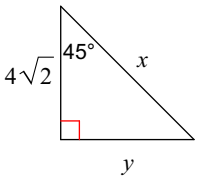
1)



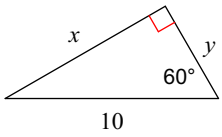
2)



3)



4)



Find the value of each trigonometric ratio to the nearest ten-thousandth.

5) cos 59°

6) sin 60°

7) cos 40°

8) tan 13°

Find each angle measure to the nearest degree.

9) sin V = 0.2588

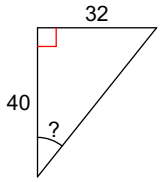
10) sin A = 0.2756

11) cos Z = 0.1045

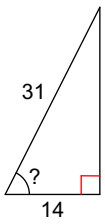
12) tan A = 14.3007

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

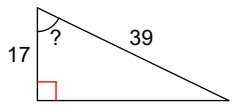
13)



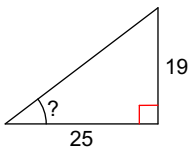
14)



15)

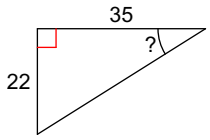


16)

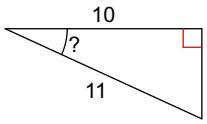


© 2017 Kuta Software LLC. All rights reserved. Made with Infinite Geometry.

17)

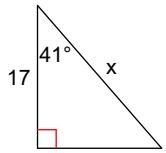


18)

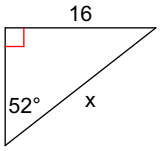


Find the missing side. Round to the nearest tenth.

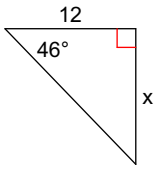
19)



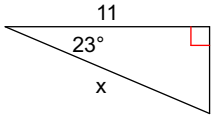
20)



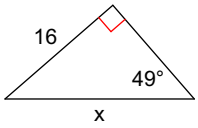
21)



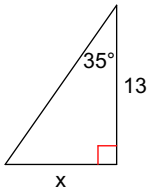
22)



23)



24)



25) A building is 50 feet high. At a distance away from the building, an observer notices that the angle of elevation to the top of the building is 41º. How far is the observer from the base of the building?

26) A bird sits on top of a lamppost. The angle of depression from the bird to the feet of an observer standing away from the lamppost is . The distance from the bird to the observer is 25 meters. How tall is the lamppost?

27) An airplane is flying at a height of 2 miles above the ground. The distance along the ground from the airplane to the airport is 5 miles. What is the angle of depression from the airplane to the airport?

© 2017 Kuta Software LLC. All rights reserved. Made with Infinite Geometry.

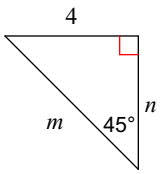
Analytic Geometry Name_____ ID: 1

© 2017 Kuta Software LLC. All rights reserved.

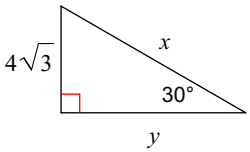
TRIG Review

Date_____ Period____

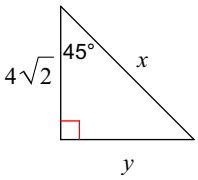
Find the missing side lengths. Leave your answers as radicals in simplest form.

1) 

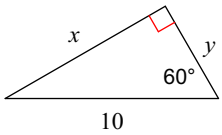
$m = 4\sqrt{2},\ n = 4$

2) 

$x = 8\sqrt{3},\ y = 12$

3) 

$x = 8,\ y = 4\sqrt{2}$

4) 

$x = 5\sqrt{3},\ y = 5$

Find the value of each trigonometric ratio to the nearest ten-thousandth.

5) cos 59°

0.5150

6) sin 60°

0.8660

7) cos 40°

0.7660

8) tan 13°

0.2309

Find each angle measure to the nearest degree.

9) sin V = 0.2588

15°

10) sin A = 0.2756

16°

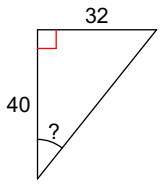
11) cos Z = 0.1045

84°

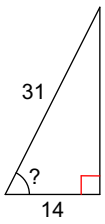
12) tan A = 14.3007

86°

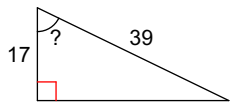
Find the measure of the indicated angle to the nearest degree.

13) 

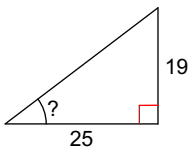
39°

14) 

63°

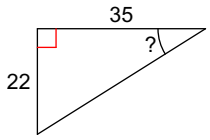
15) 

64°

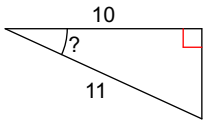
16) 

37°

© 2017 Kuta Software LLC. All rights reserved. Made with Infinite Geometry.

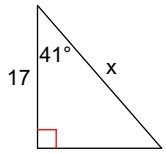
17) 

32°

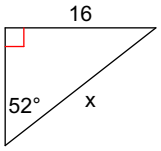
18) 

25°

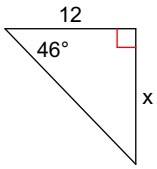
Find the missing side. Round to the nearest tenth.

19) 

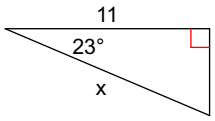
22.5

20) 

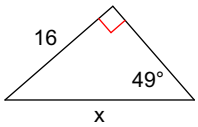
20.3

21) 

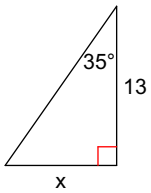
12.4

22) 

11.9

23) 

21.2

24) 

9.1

25) A building is 50 feet high. At a distance away from the building, an observer notices that the angle of elevation to the top of the building is 41º. How far is the observer from the base of the building?

26) A bird sits on top of a lamppost. The angle of depression from the bird to the feet of an observer standing away from the lamppost is . The distance from the bird to the observer is 25 meters. How tall is the lamppost?

27) An airplane is flying at a height of 2 miles above the ground. The distance along the ground from the airplane to the airport is 5 miles. What is the angle of depression from the airplane to the airport?

© 2017 Kuta Software LLC. All rights reserved. Made with Infinite Geometry.