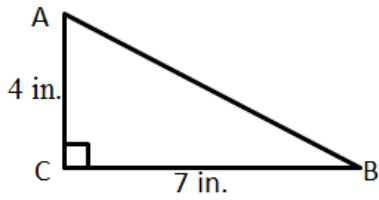


Right Triangle Trig Review

Name: _____ Block: _____



1) Find $\sin A =$

2) Find $\tan B =$

3) Find $\cos B =$

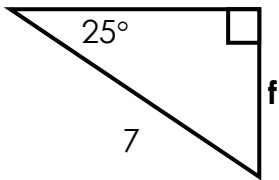
4) Find $\tan A =$

5) $\sin 75^\circ = \cos \underline{\hspace{1cm}}$

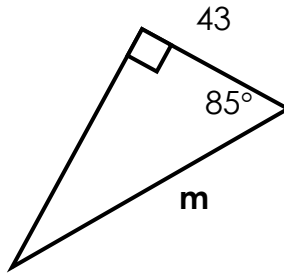
6) $\cos 40^\circ = \sin \underline{\hspace{1cm}}$

7) $\cos 54^\circ = \cos \underline{\hspace{1cm}}$

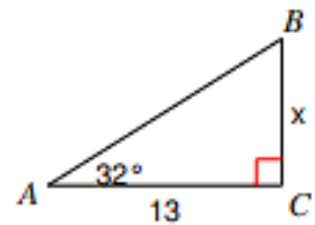
8) Find f .



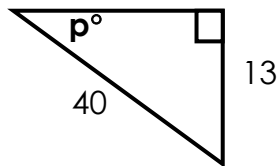
9) Find m .



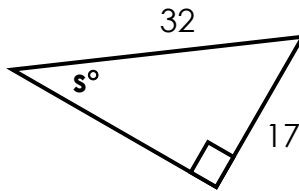
10) Find x .



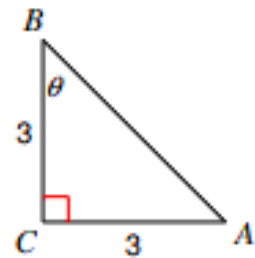
11) Find angle P.



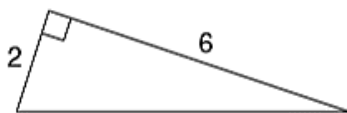
12) Find s .



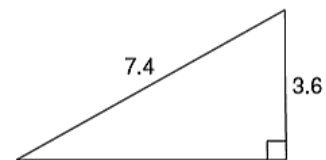
13) Solve for theta.



14) Find the missing side.



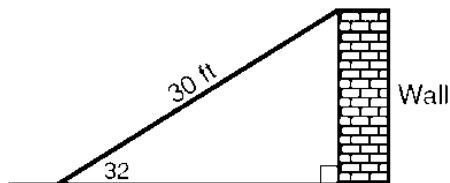
15) Find the missing side.



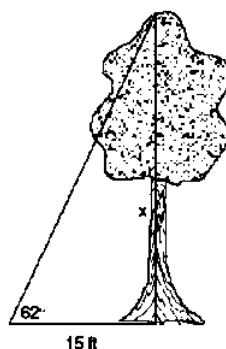
16) From 25 feet away from the base of a building, the angle of elevation from the ground to the top of a building is measured to be 38° . How tall is the building?

17) A kite is 35 feet in the air and the string forms an angle of 62° with the ground. How long is the string?

18) If a 30-foot ramp forms an angle of 32° with the ground, how high above the ground is the top of the ramp?

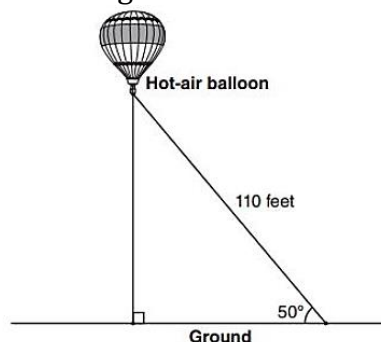


19) Find the height of the tree.



20) A 10-foot ladder is placed against the side of a building. The base of the ladder must be placed at an angle of 72° with the level ground. Find how far the base of the ladder should be from the side of the building the ladder will reach.

21) Determine the height of the balloon directly above the ground.

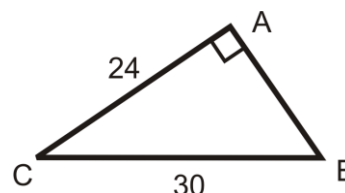


22) From a point on the ground 25 feet from the foot of a tree, the angle of elevation of the top of the tree is 32° . Find the height of the tree.

23) A lookout spots a fire from a 32-meter tower. The angle of depression from the tower to the fire is 13° . How far is the fire from the base of the tower?

24) From an airplane 6,000 ft above the ground. You see a landing strip at an angle of depression of 25° . Measuring the distance along the ground. How far are you from the landing strip?

25) Find \overline{AB} , $m\angle C$, and $b\angle B$.



1. Find $\sin A$.

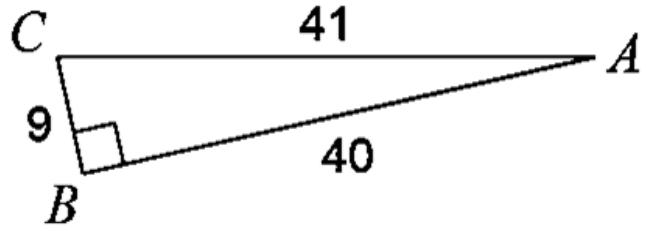
4. Find $\sin C$.

2. Find $\cos A$.

5. Find $\cos C$.

3. Find $\tan A$.

6. Find $\tan C$.



7.

$$\cos 40^\circ = \sin \underline{\hspace{2cm}}$$

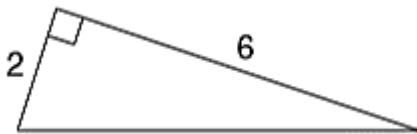
8.

$$\sin 26^\circ = \cos \underline{\hspace{2cm}}$$

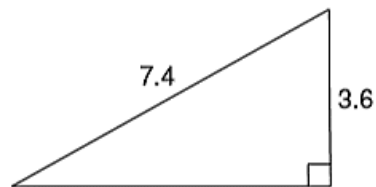
9. If $\sin A = \frac{4}{5}$, Find $\tan A$.

10. If $\cos B = \frac{5}{13}$, Find $\sin B$.

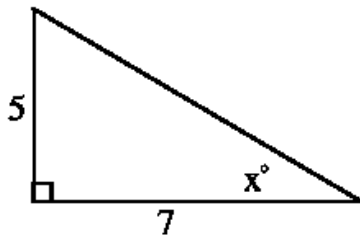
11.



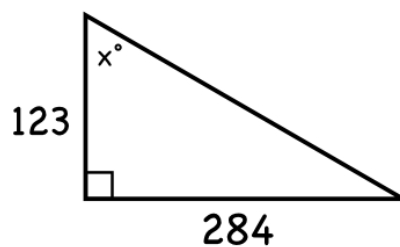
12.



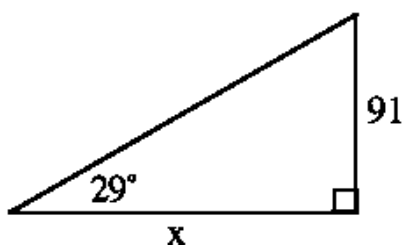
13. Solve for X.



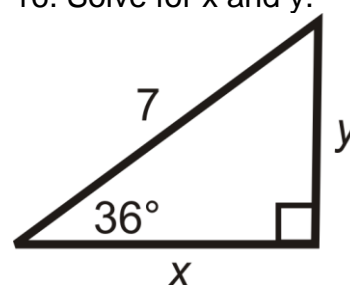
14. Solve for X.



15. Solve for x.



16. Solve for x and y.



Right Triangle Trig Review

Name: _____

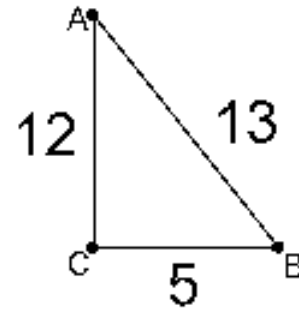
1. Find $\sin A$.

2. Find $\cos A$.

3. Find $\tan A$.

4. Find $\sin B$.

5. Find $\cos B$.



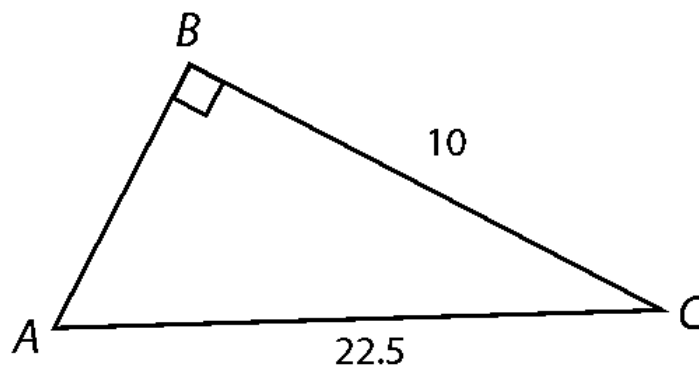
6. $\triangle ABC$ is a right triangle. One of the acute angles is 38° . What is the cosine of the other acute angle?

7. For which value of θ is $\cos \theta = \sin 73^\circ$?

8. Use your calculator to find the sine of 61° .

9. For which value of θ is $\sin \theta = \cos 64^\circ$?

10. Find \overline{AB} , $m\angle C$, and $b\angle A$.



11. A 12-foot ladder is placed against a wall. The ladder is at an angle of 72.5° to the level ground. About how far up the wall will the top of the ladder reach?

12. You see a hiker sitting on a bench taking a water break at the top of a hill at a 60° angle of elevation. Your eye level is 5 feet off the ground and you are standing 100 meters from the base of the hill. At what altitude is the hiker sitting on the bench?

13. The height of a building is 75 meters. What is the angle of elevation of the sun when the building casts a shadow that is 60 meters long?

14. An 8 foot ladder is leaning against a wall so that the base is 5 feet from the base of the wall. What angle does the ladder make with the ground?

15. A naval ship is stationed in calm waters. The sonar detects a submarine at a depth of about 400 meters and a horizontal distance of 600 meters. What is the distance between the ship and the submarine?

16. A kite is being flown using 150 yards of string. The kite has an angle of elevation with the ground of 65 degrees. How high above the ground is the kite?

17. Two buildings are 15 meters apart. The height of the shorter building is 22 meters. The angle of elevation from the roof of the shorter building to the roof of the taller building is 40° . What is the height of the taller building?

