

Quizizz

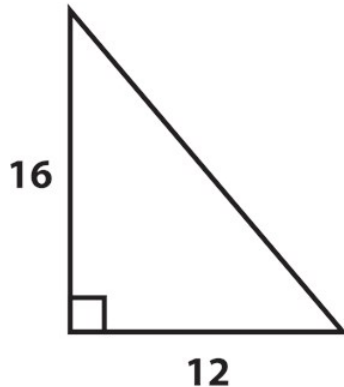
Chapter 8 Geometry Review

Name : _____

Class : _____

Date : _____

1. Find the length of the hypotenuse.



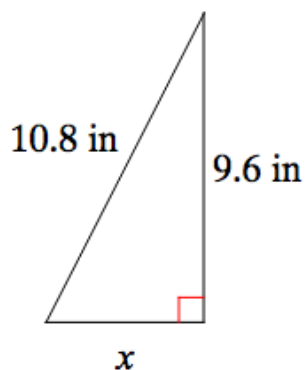
a) 10.6

c) 5.3

b) 20

d) 2

2. Find the value of x .



a) 14.45 in.

c) 4.95 in.

b) 24.48 in.

d) 1.20 in.

3. Determine if the following 3 sides form a right triangle and determine if they form a Pythagorean Triple.

$\sqrt{3}$, 5, $\sqrt{34}$

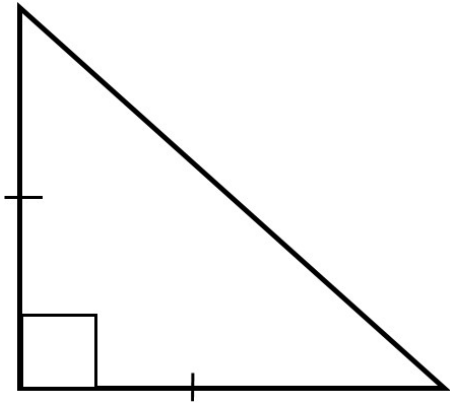
a) Right Triangle? Yes
Pythagorean Triple? No

c) Right Triangle? Yes
Pythagorean Triple? Yes

b) Right Triangle? No
Pythagorean Triple? No

d) Right Triangle? No
Pythagorean Triple? Yes

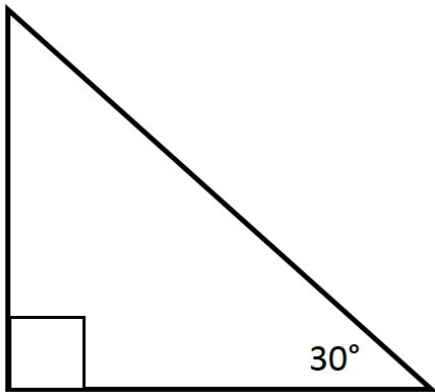
4. What type of special triangle is this?



- a) $45^\circ-45^\circ-90^\circ$
 c) Equiangular

- b) $30^\circ-60^\circ-90^\circ$
 d) Equilateral

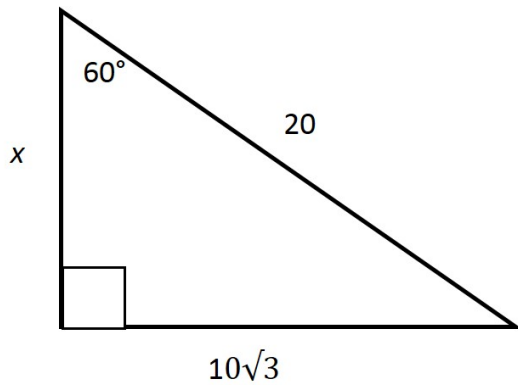
5. What type of special triangle is this?



- a) $45^\circ-45^\circ-90^\circ$
 c) Isosceles

- b) $30^\circ-60^\circ-90^\circ$
 d) Obtuse

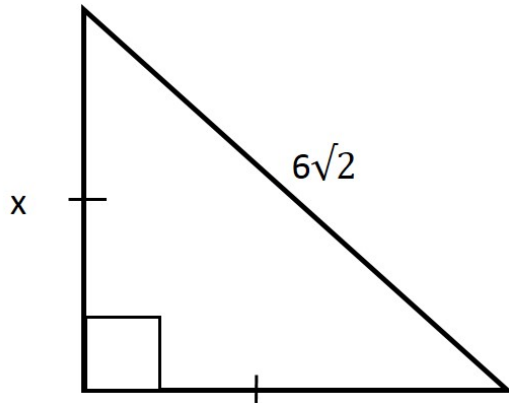
6. Find x.



- a) 10
 c) $10\sqrt{3}$

- b) 20
 d) $\sqrt{3}$

7. Find x .



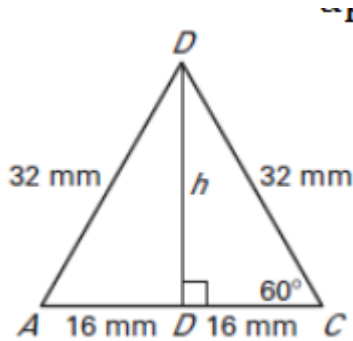
a) 12

b) $\sqrt{2}$

c) $\sqrt{3}$

d) 6

8. You are making a guitar pick that resembles an equilateral triangle with side lengths of 32 millimeters. What is the approximate height of the pick? (hint: the height bisects angle D)



a) $32\sqrt{3}$

b) $16\sqrt{3}$

c) 32

d) $16\sqrt{2}$

9. Which trigonometric function uses the opposite leg and the adjacent leg?

a) sine

b) cosine

c) tangent

d) none of the above

10. Which trigonometric function uses the opposite leg and the hypotenuse?

a) sine

b) cosine

c) tangent

d) none of the above

11. Which trigonometric function uses the adjacent leg and hypotenuse?

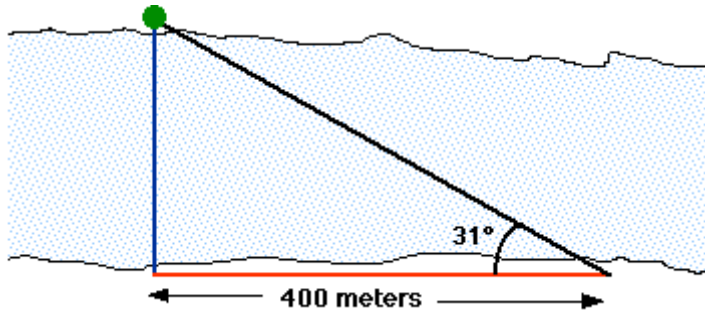
a) sine

b) cosine

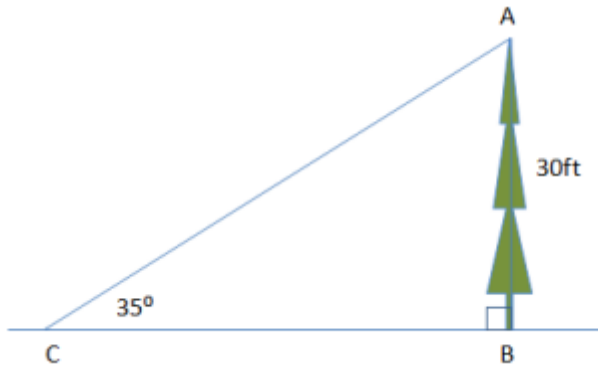
c) tangent

d) none of the above

12. An anchor from the boat (green dot) is let down to the bottom of the lake. The captain knows that the boat would need to travel 400 meters to be directly above the anchor. He also knows that the angle of depression is 31° between the water and the anchor line. How much line has he let out for the anchor (dark black line)?

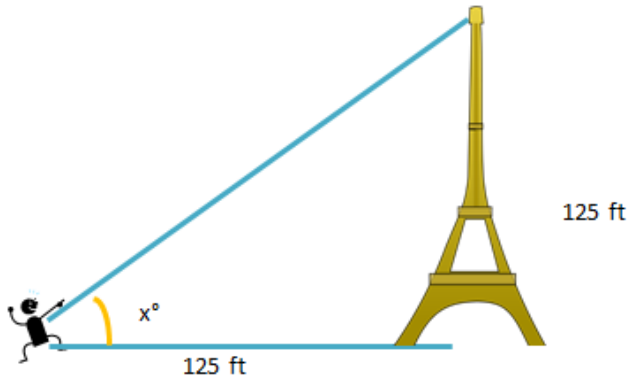


- a) 342.87 meters b) 466.65 meters
 c) 240.34 meters d) 665.71 meters
13. An insurance agent is called out to a house (at point C) to be asked about a tree near them. The owner of the home knows the tree is 30 feet tall and the angle of elevation is 35° . The owner of the home asks the insurance agent if the tree will hit the home. Will it?



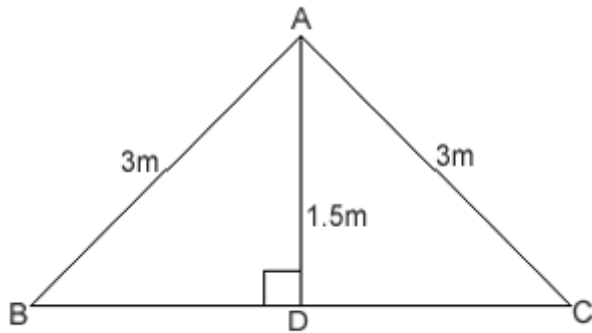
- a) Yes b) No
 c) If a tree falls and no one is around to see it, does it make a sound? d) Good luck....

14. A man visits Paris to take a picture of the Eiffel Tower for his magazine in the US. He knows using his smartphone that the Eiffel Tower is 125 feet tall and he needs to be 125 feet away for his camera to capture the entire Eiffel Tower. What is the angle that he needs to hold the camera at to make sure he captures the entire building?



- a) 60° b) 45°
 c) 90° d) 30°

15. You are building a triangular dog house. You know that the main beam of the roof is 1.5 meters and that the rafters of the roof are 3 meters long. Find the pitch (angle B and angle C) of the roof to make sure your beam is perpendicular to the ground.



- a) 30° b) 26.6°
 c) 60° d) 63.4°