

Name _____

MR12 Trig Ratios Quiz

1. Find the tangent of angle 54° .

2. Find the cosine of angle 54° .

3. Find the sine of angle 54° .

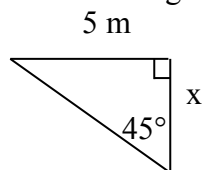
4. Find the angle whose tangent is 5.6

5. Find the angle whose sine is .50

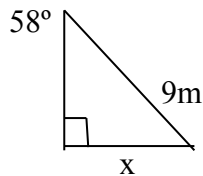
6. Find the angle whose cosine is .50

In each of the following find x (length of a side) to the nearest whole number.

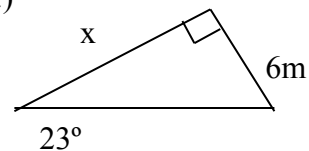
7.)



8.)

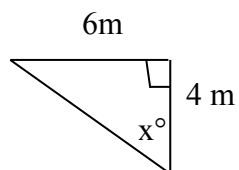


9.)

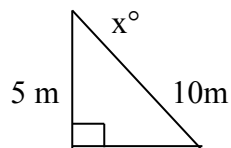


Find the angle to the nearest tenth.

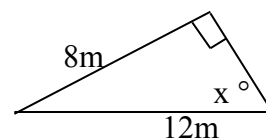
10.)



11.)

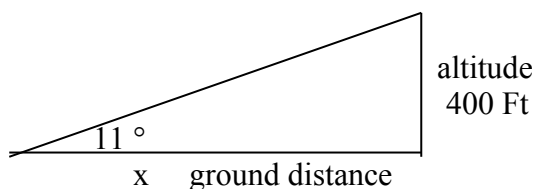


12.)



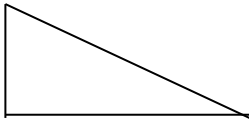
Problems 13 to 17 you must draw a diagram and show all work for credit.

13. A plane travels at an angle of 11° to reach its flying altitude of 400 feet. How many miles of ground distance has it traveled ?



14. A second floor window is 20 feet high. If a ladder must be placed to make a 30° angle with the ground, how far from the building must the ladder be placed?

15. The angle of elevation to the sun is 40° when a tree casts a shadow of 30 cm. How high is the tree?



16. From a lighthouse 60 feet high the angle of depression of a boat is 41° . How far from the lighthouse is the boat?

