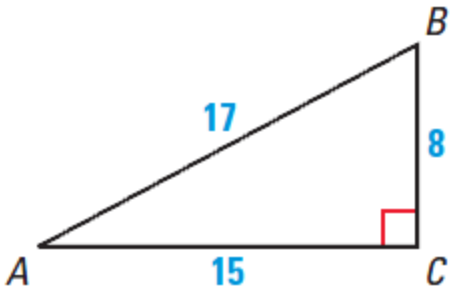
PRACTICE Quiz 2 Unit 3- Right Triangle Trigonometry
Standard: MCC9-12.G.SRT.6; MCC9-12.G.SRT.7; MCC9-12.G.SRT.8

Name_____ **Date**_____ **Period**_____

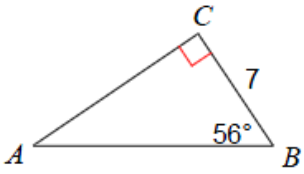


Write each trigonometric ratio as a simplified fraction and as a decimal rounded to the nearest hundredth.

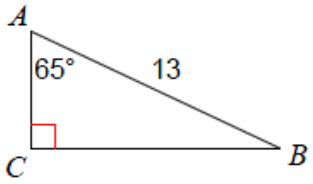
1. $\sin A$
2. $\cos B$
3. $\tan B$
4. $\sin B$
5. $\cos A$
6. $\tan A$

Find the indicated measurement. Round measurements to the nearest hundredth.

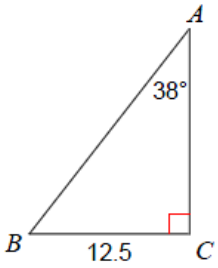
7. Find AB



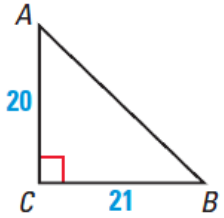
8. Find BC



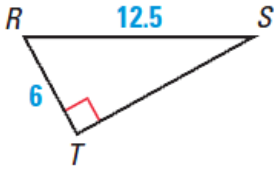
9. Find AC



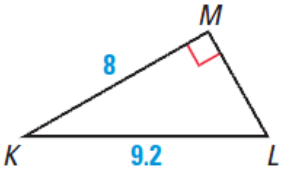
10. Find the $m\angle A$



11. Find the $m\angle R$

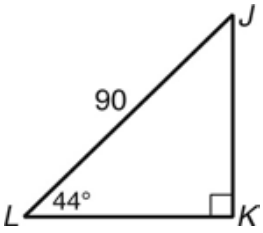


12. Find the $m\angle L$



Solve the following right triangles. Round measurements to the nearest hundredth.

13.

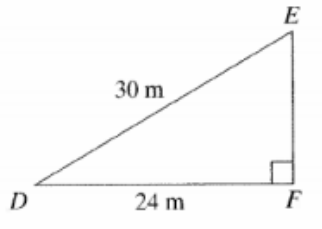


$m\angle J =$ _____

$JK =$ _____

$LK =$ _____

14.



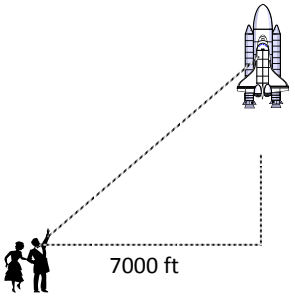
$m\angle D =$ _____

$m\angle E =$ _____

$EF =$ _____

Solve the following word problems. Round measurements to the nearest hundredth.

15. An observer is standing 7000 feet from the launch pad of the Space Shuttle Discovery. The Shuttle launches and 30 seconds later the observer sites the shuttle with an angle of elevation of 78°. How high is the space shuttle?



16. A mouse is at the edge of a cliff 850 ft. above the base of the cliff. He sees a fox in a canyon. The angle of depression from his position is 56°. How far is the fox from the base of the cliff?

17. Jon was sitting out in the woods watching the squirrels jump from tree to tree. If his angle of elevation to a particular squirrel was 72^{o} and the squirrel was 80 feet up in the tree, how far was Jon from the squirrel?

18. Blake was at the fair holding his new balloon. The wind caught the balloon and it flew away at an angle of elevation of 52^{o}. If the balloon was a horizontal distance of 60 feet from Blake, what is the vertical distance above Blake the balloon has drifted?

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