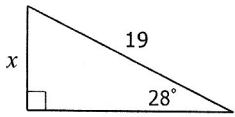


FINDING MISSING SIDES WITH TRIG RATIOS

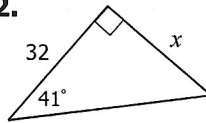
Make sure your calculator is in
DEGREE MODE!

Directions: Solve for x . Round to the nearest tenth.

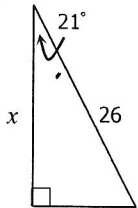
1.



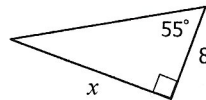
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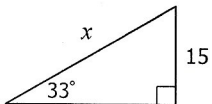
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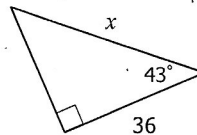
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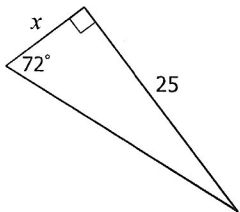
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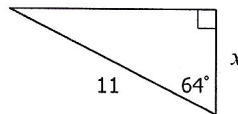
6.



7.



8.

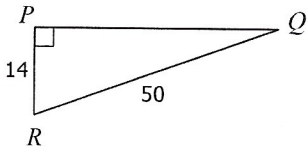


9. Jake leaned a 12-foot ladder against his house. If the angle formed by the ladder and the ground is 68° , how far from the base of the house did he place the ladder?

10. A ramp is used to load suitcases on an airplane. If the cargo door is 7 feet from the ground and the angle formed by the end of the ramp and the ground is 25° , how long is the ramp?

Directions: Give each trig ratio as a fraction in simplest form.

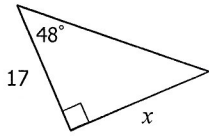
1.



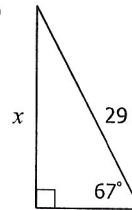
- $\sin Q = \underline{\hspace{2cm}}$
- $\cos Q = \underline{\hspace{2cm}}$
- $\tan Q = \underline{\hspace{2cm}}$
- $\sin R = \underline{\hspace{2cm}}$
- $\cos R = \underline{\hspace{2cm}}$
- $\tan R = \underline{\hspace{2cm}}$

Directions: Solve for x . Round to the nearest tenth.

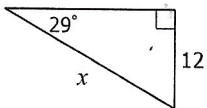
2.



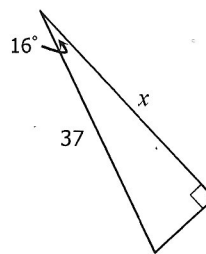
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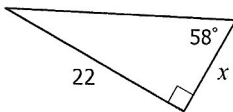
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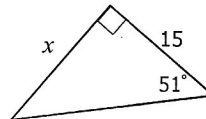
5.



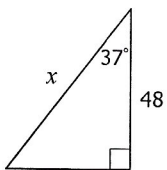
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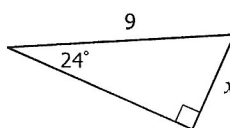
7.



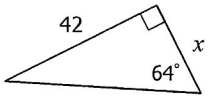
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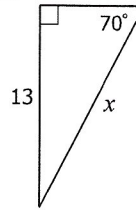
9.



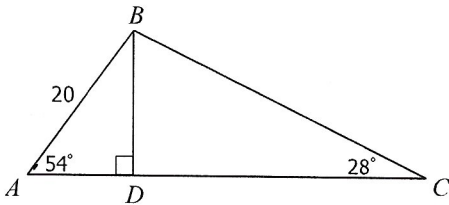
10.



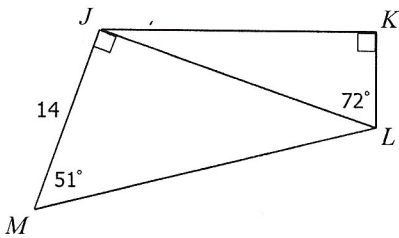
11.



12. Find DC .



13. Find KL .



14. A wire is attached from the top of a 30 foot telephone pole to a stake in the ground. If the angle formed by the wire and the pole is 48° , what is the length of the wire?

15. An airplane climbs at an angle of 12° with the ground. Find the horizontal distance it has traveled once it has reached an altitude of 500 feet.