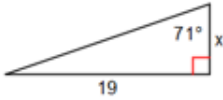


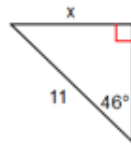
Right Triangle Trigonometry

Find the missing side. Round to the nearest thousandth (third decimal place).

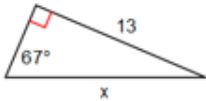
1)



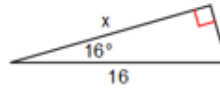
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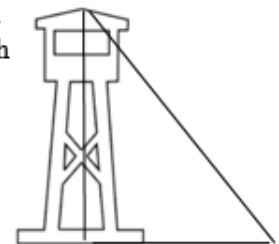
3)



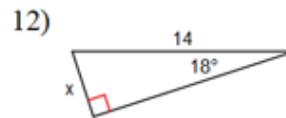
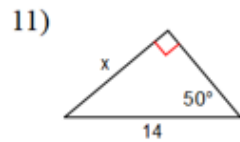
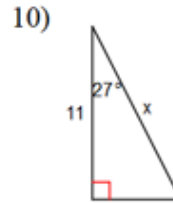
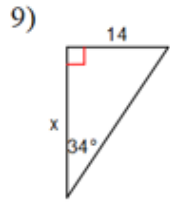
4)



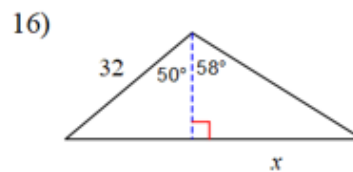
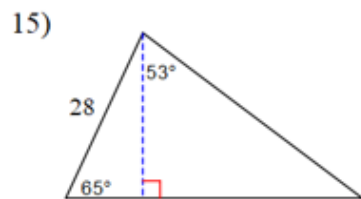
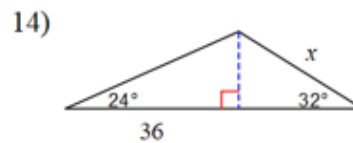
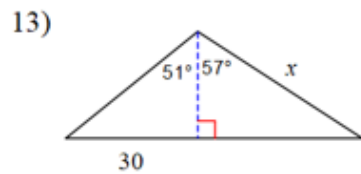
5. An observation tower is 75 m high. A support wire is attached to the tower 20 m from the top. If the support wire and the ground form an angle of 46 degrees, what is the length of the support wire, to the nearest tenth?



6. A 12 foot slide is attached to a swing set. The slide makes a 65° angle with the swing set. What is the height to the top of the slide?



Find the length of the side labeled x . Round intermediate values to the nearest tenth. Use the rounded values to calculate the next value. Round your final answer to the nearest tenth.



- 17) A surveyor needs to find the distance BC across a lake as part of a project to build a bridge. The distance from point A to point B is 325 feet. The measurement of angle A is 42° and the measurement of angle B is 110° . What is the distance BC across the lake to the nearest foot?

