

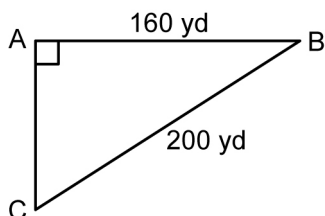
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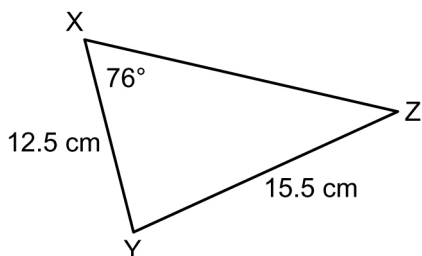
Chapter 1 Test

1. Is each statement true (T) or false (F)?
- a) You can solve a triangle using the cosine law if you are given the length of all three sides.
 - b) The sine and tangent ratios can be used in all triangles.
 - c) A right triangle cannot be solved using only the sine law.
 - d) If you are given the measure of all three angles of a triangle, you can solve the triangle using the sine law.

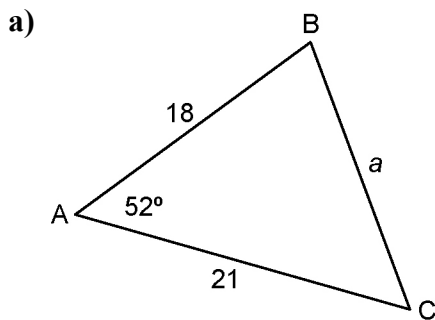
2. Solve the right triangle.



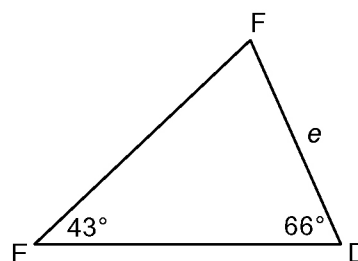
3. Solve the triangle.



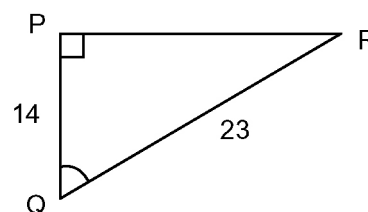
4. Solve for the unknown in each triangle.



b)



c)



5. Will a golfer using a wedge that sends the ball into the air at an angle of 64° , be able to hit her ball over a 30 ft tree if she is 7 yd in front of the tree?
6. Two ski poles are resting against each other. The tips of ski poles are stuck into the ground 17 cm apart and the handles meet 110 cm above the ground. What angle do the ski poles form where they touch?
7. A coast guard station has received a distress call from a fishing boat 12 km away. There is a rescue boat 5 km away from the station. From the coast guard station, the angle between the two boats is 85° . How far is the rescue boat from the fishing boat?