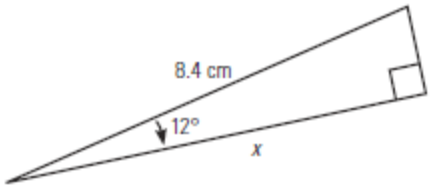
Mr. Gunstenson
WAM 10

Unit 5 - WA10.8 - Trigonometry Practice Questions #2

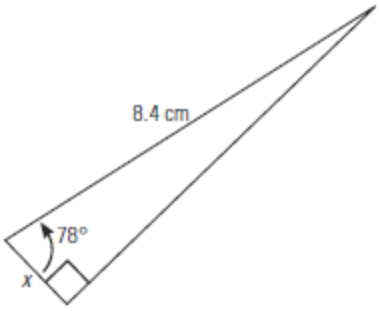
Be sure to input your answers here to receive credit: https://bit.ly/2YQWKj6

1. Calculate the length of the side indicated in the following diagrams.

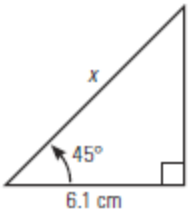
a.



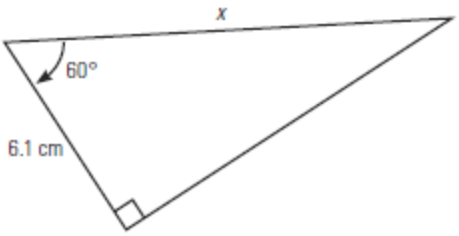
b.



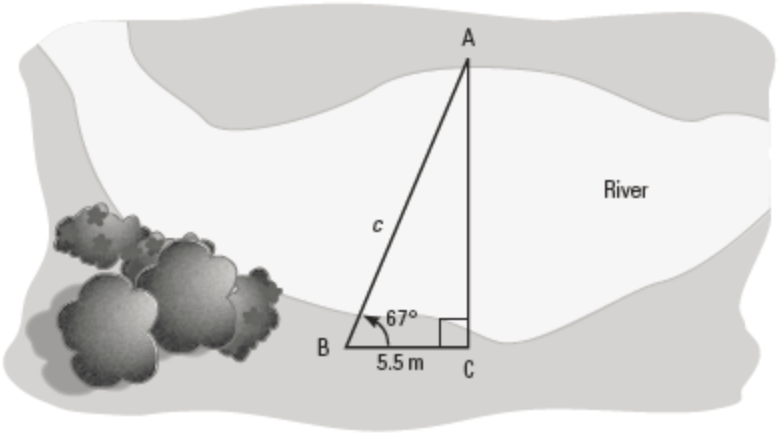
c.



d.



2. How far from the base of a flagpole must a guy wire be fixed if the wire is 14 metres long and it makes an angle of 63° with the ground?
3. Reba walks 29 yards across the diagonal of a rectangular field. If the angle between the width and the diagonal is 67°, how wide is the field?
4. A square-based pyramid has a slant height of 11 metres. The slant height makes an angle of 70° with the ground. What is the length of a side of the pyramid? Be careful!
5. Arul needs to string a bridge line across the river from A to B. What must the length of the bridge line be, given his measurements?



6. What is the length of a rafter that makes an angle of 35° with the floor of an attic whose centre is 8.6 metres from the edge?
7. An airplane starts descending at an angle of depression of 5°. If the horizontal distance to its destination is 500 kilometres, what is the actual distance the airplane will travel before it lands?