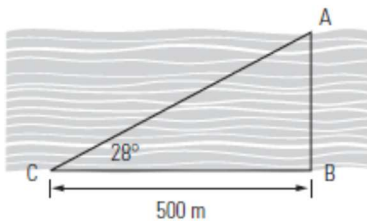


1.1 Complex Triangles Practice

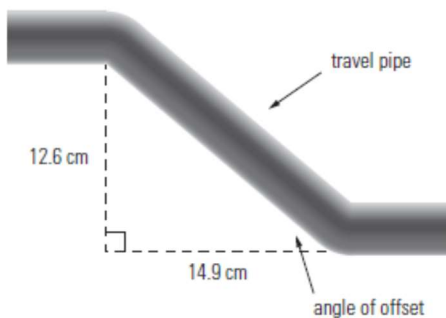
Round all lengths to the nearest hundredth and angles to the nearest degree!

1. A woman is standing on one side of a deep ravine. The angle of depression to the bottom of the far side of the ravine is 52° and the ravine is 120 m across. How deep is the ravine?

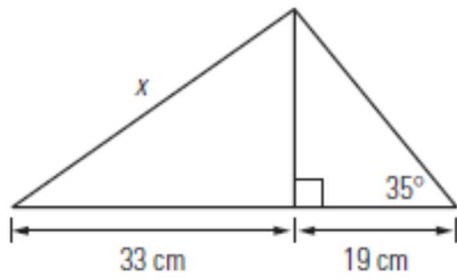
2. A surveyor must determine the distance, AB, across a river. He stands at point C, downriver 500 m from B, and using his theodolite, measures the angle of vision to A as 28° . How wide is the river?



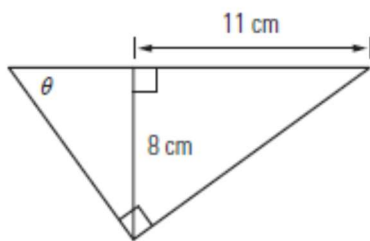
3. Find the angle of offset between the two pipes. How long is the travel pipe?



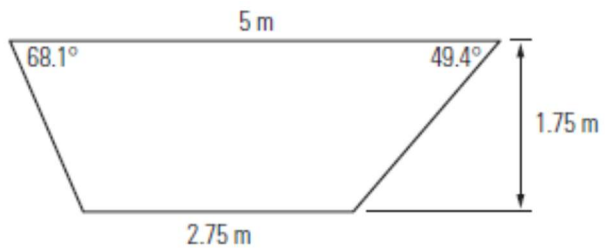
4. What is the length of x ?



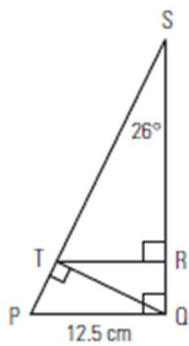
5. Calculate the measure of angle θ .



6. Pauline is building a fence around her vegetable garden, shown below. What length of fence will she need to build?



7. Find QS, ST, and RT.



8. Soo-Jin is installing carpet in a den. Using the floor plan below, calculate the area of carpet Soo-Jin will need to buy.

