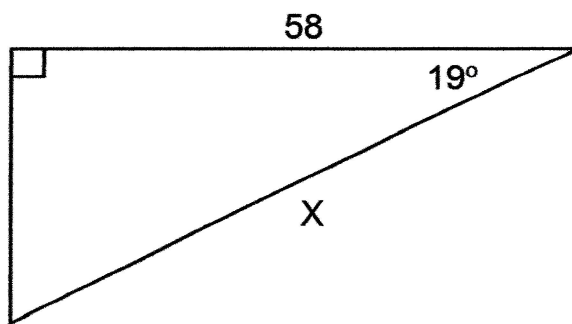
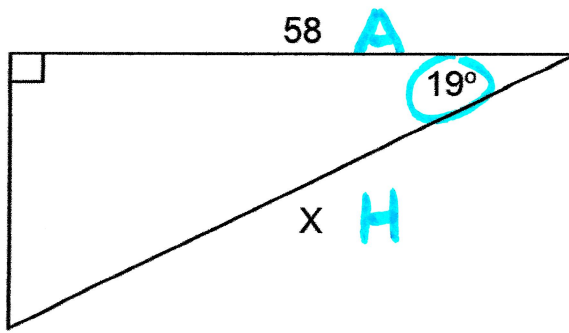


1. Find the value of x to the nearest hundredth.



2. To support a cell phone tower workers connected a 110 ft long cable to the top of the tower and to an anchor in the ground. The cable makes a 38° angle with the tower. How far from the tower did they place the anchor in the ground? Round to the nearest hundredth.

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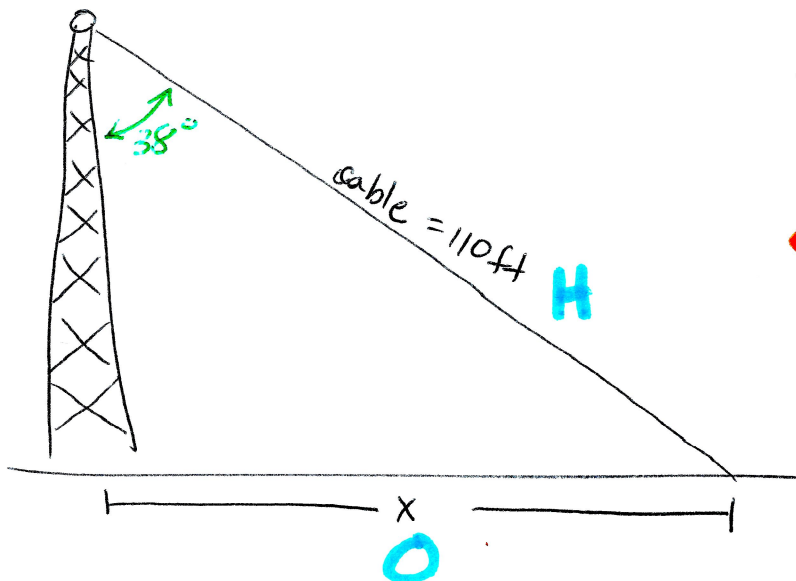


SOHCAHTOA

$$\cos 19^\circ = \frac{58}{x}$$

$$x = 61.34$$

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SOHCAHTOA

$$\sin 38^\circ = \frac{x}{110}$$

$$x = 67.72 \text{ ft.}$$