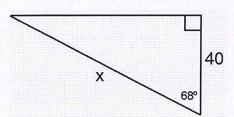
Bellwork

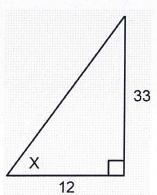
Geo

Monday, March 23, 2020

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



2. Find the value of *x* to the nearest hundredth.

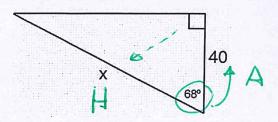


3. A support wire is attached to the top of a cell phone tower and to an anchor in the ground. The wire makes a 62° angle with the ground. If the anchor is 40 feet from the cell phone tower find the length of the support wire to the nearest tenth of a foot.

Bellwork Geo Monday, March 23, 2020

Answers

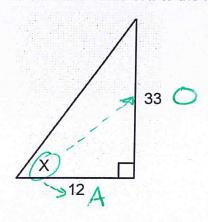
1. Find the value of *x* to the nearest hundredth.



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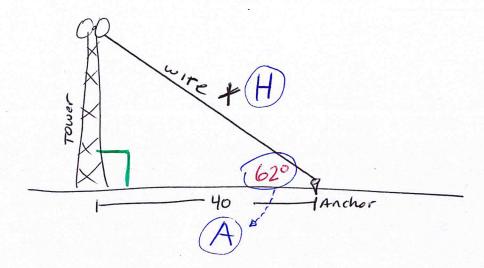
$$COS 68^{\circ} = \frac{40}{X}$$
 $X = \frac{(40)(1)}{cos 68^{\circ}} = \frac{40}{cos 68^{\circ}}$
 $X = 106.78$

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



$$X = Tan^{-1}(\frac{33}{12})$$

3. A support wire is attached to the top of a cell phone tower and to an anchor in the ground. The wire makes a 62° angle with the ground. If the anchor is 40 feet from the cell phone tower find the length of the support wire to the nearest tenth of a foot.



$$\cos 62^\circ = \frac{40}{X}$$

$$X = \frac{(40)(1)}{\cos 62} = \frac{40}{\cos 620}$$