

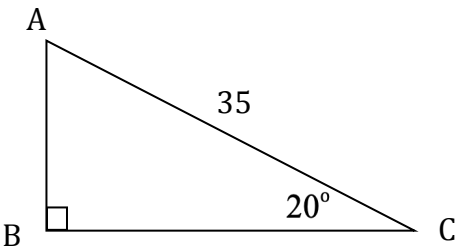
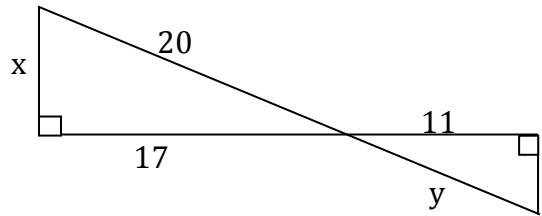
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SOHCAHTOA QUEST

name: _____

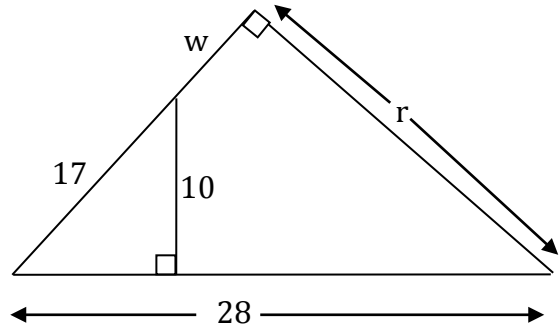
KNOWLEDGE:

Solve for unknowns in each:



[3,2]

[4,3]



$\triangle DEF$, $\angle E = 90^\circ$, $DE = 12$, $DF = 20$
(Draw diagram)

APPLICATION:

1. A telephone pole is supported by a wire attached to the ground 6m from the base of the pole. The wire makes an angle of 70° with the ground. Draw a diagram.

[3] a) How long is the wire?

[2] b) How far up the pole is the wire attached?

2. Aidan sits on top of a building. He sees another building 45 m away, with an angle of elevation of 20° to its top. As well, he sights the base of the second building at an angle of depression of 50° . Draw a diagram.

[4,3] a) How tall is the building he is on?
building?

b) How tall is the second building?