

Trigonometry of Right Triangles | Assignment

Name:

Date:

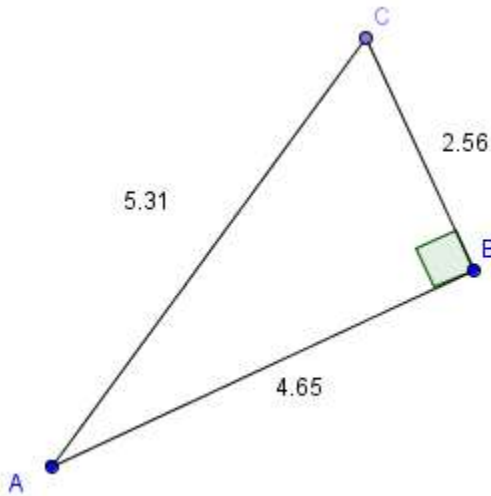
This assignment is...

Is Good to go

Needs
Corrections

Make sure to show all of your work! You will be asked to make corrections if steps are not shown.

1. Find the indicated ratios in the triangle below:



- a. $\tan A$

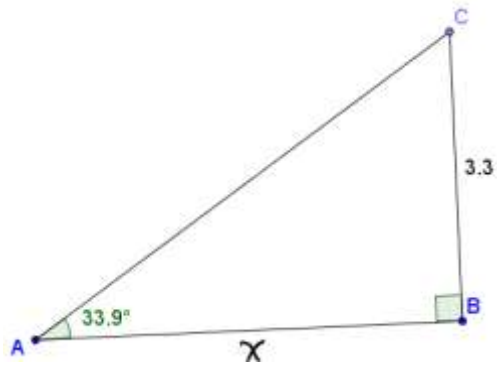
- b. $\cos C$

- c. $\sin C$

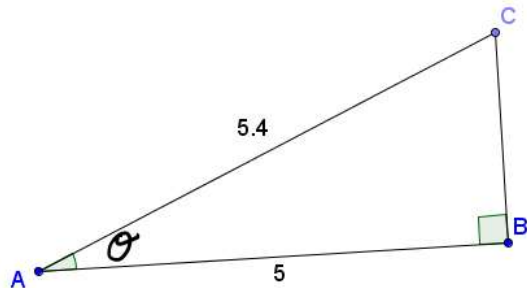
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2. Find x or θ in each of the triangles below:

a. Find x

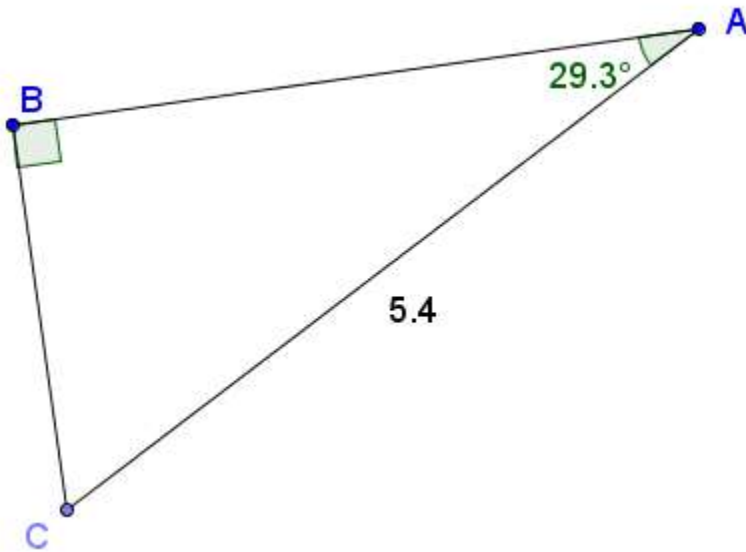


b. Find θ

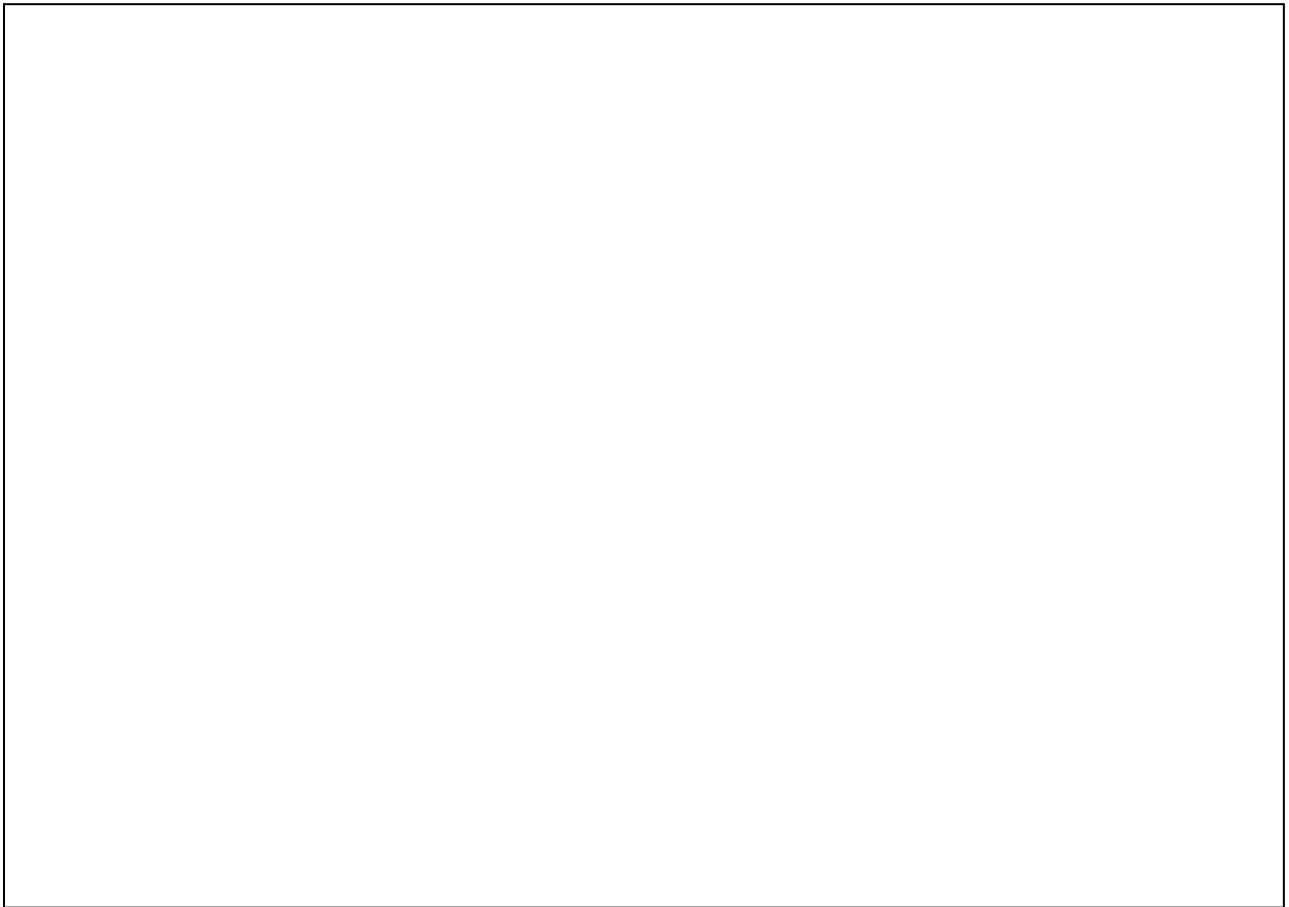
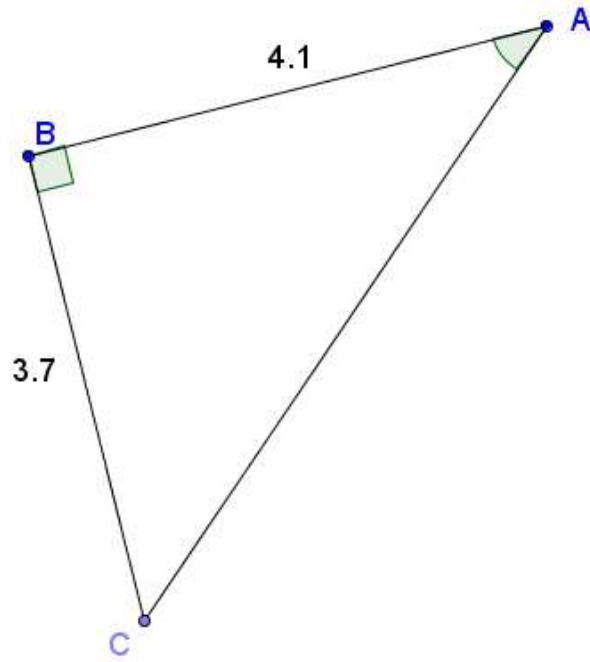


3. Solve the following triangles:

a.

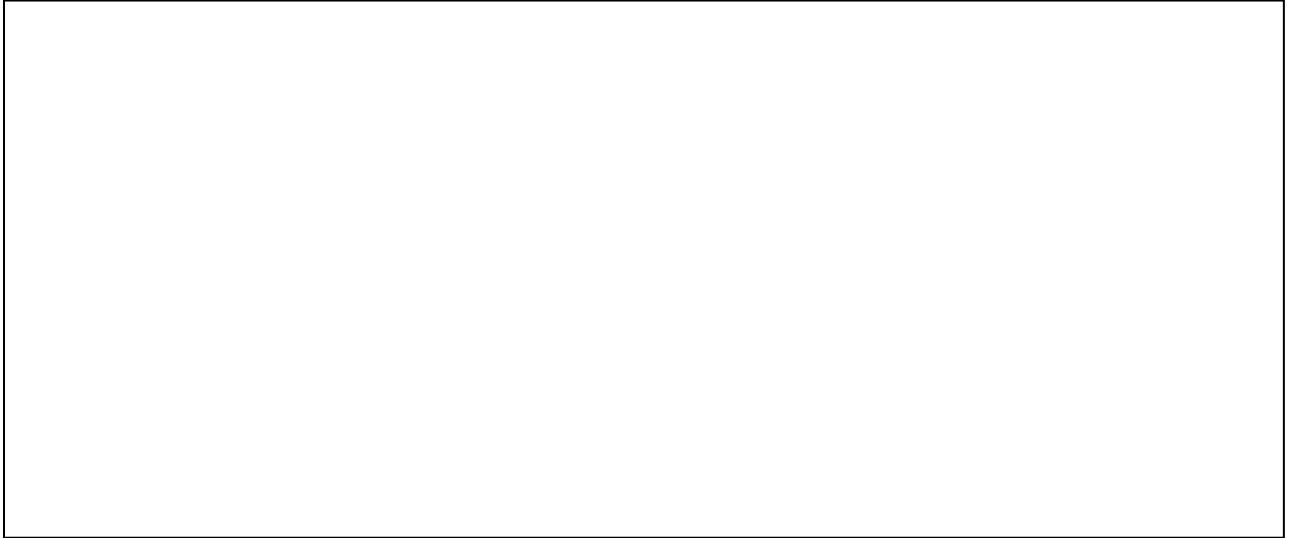


b.

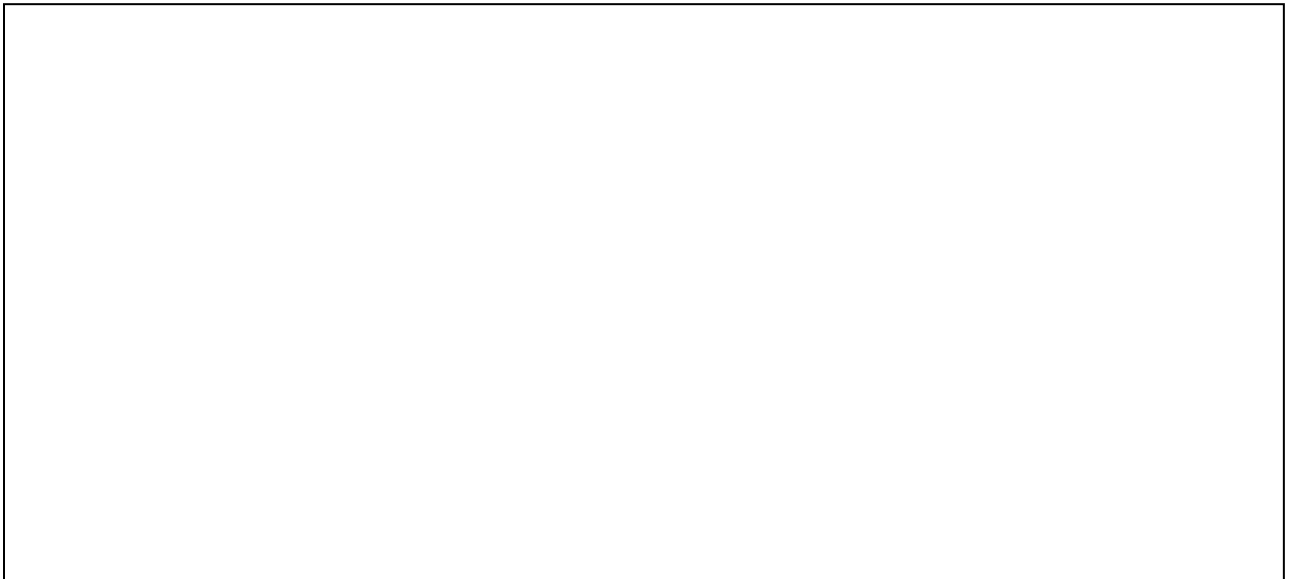


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4. A fire ladder extends 18m. Each storey of a burning building is 10ft. If the ladder can have a maximum angle with the ground of 75° , to what storey would the ladder reach?



5. In $\triangle ABC$, $\angle C = 90^\circ$, $AB = 12\text{m}$ and $AC = 8\text{m}$. Calculate the measure of $\angle A$. (Draw a diagram to help with the question.)



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6. The angle of elevation of the sun is 22° . How long is the shadow of a 15m tree, to the nearest metre?

