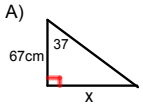
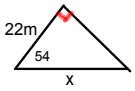
1) Find the length of the missing side(x) in each triangle.

A)



B)



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2) Find the length of the diagonal of a rectangle that has a length of 14m and a width of 8m ?

3) A 16m ladder leans against a wall. The angle formed between the ladder and the ground is 43° . Find the height that the ladder reaches up the wall?

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4) You are standing on the shorter of two buildings. You look down at the base of the taller building forming an angle of depression of 57° . You then look up at the top of the taller building forming an angle of elevation of 35°. The buildings are 50m apart.

A) Sketch and label a diagram of the buildings.
B) Find the height of <u>each</u> building?

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5) In triangle DEF, $\angle E = 90^{\circ}$, Side DF = 11.5 cm and side DE is 5.7 cm. Find the length of EF, to the nearest tenth?

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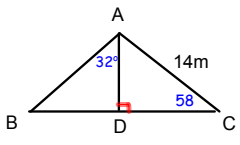
6) Determine the length of AB, in the following diagram.



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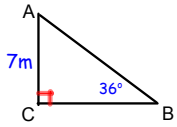
7) Determine **<u>all</u>** the missing angles and **<u>all</u>** the missing sides in the following triangle.



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