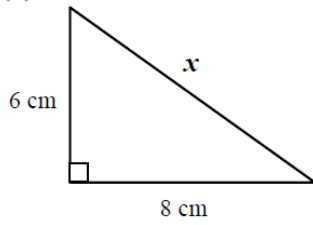


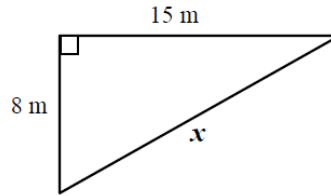
Pythagoras

1. Find the length of the hypotenuse, marked x , in each of the following triangles.

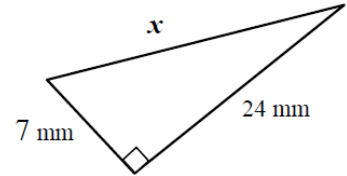
(a)



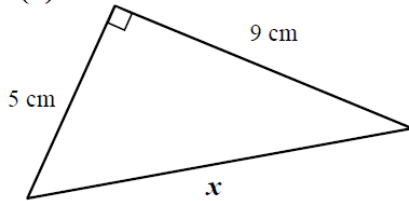
(b)



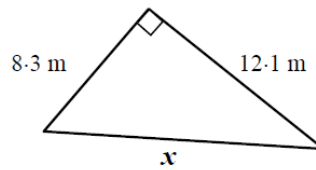
(c)



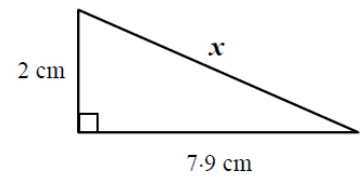
(d)



(e)

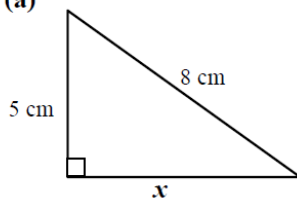


(f)

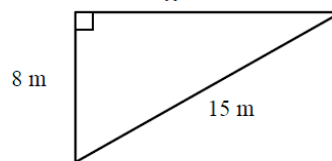


2. Find the length of the side, marked x , in each of the following triangles.

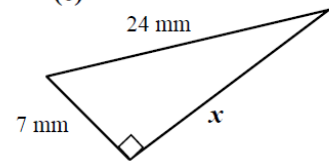
(a)



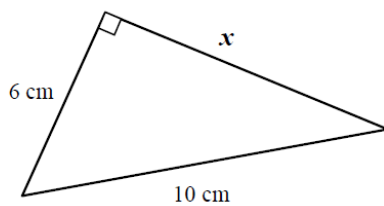
(b)



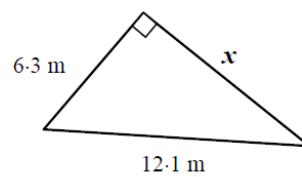
(c)



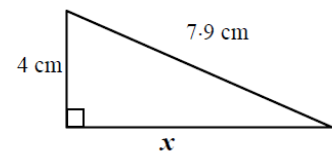
(d)



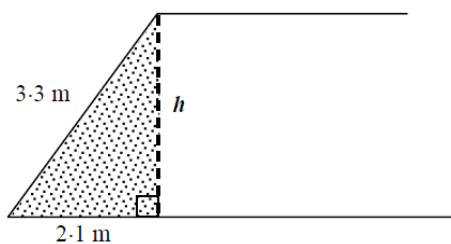
(e)



(f)

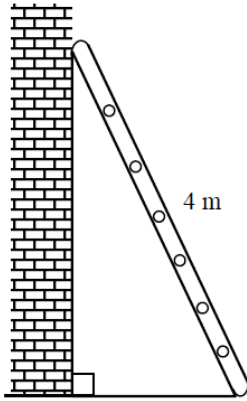


3.



Jim's house has an attic room with a sloping end wall. He is going to make a fitted cupboard. What will be the height of the cupboard, h ?

4.



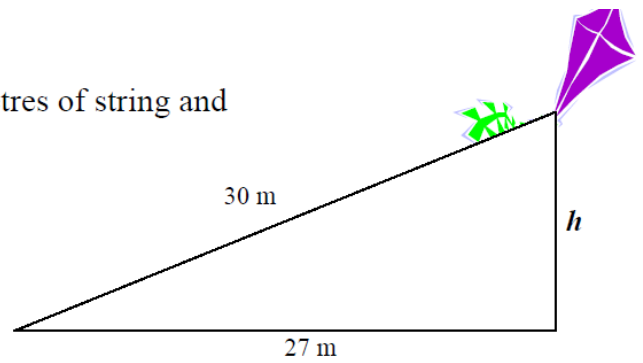
John's ladder is 4 metres long. He sets it up so that the foot of the ladder is 1.2 metres from the wall.

How far up the wall will the ladder reach?

5.

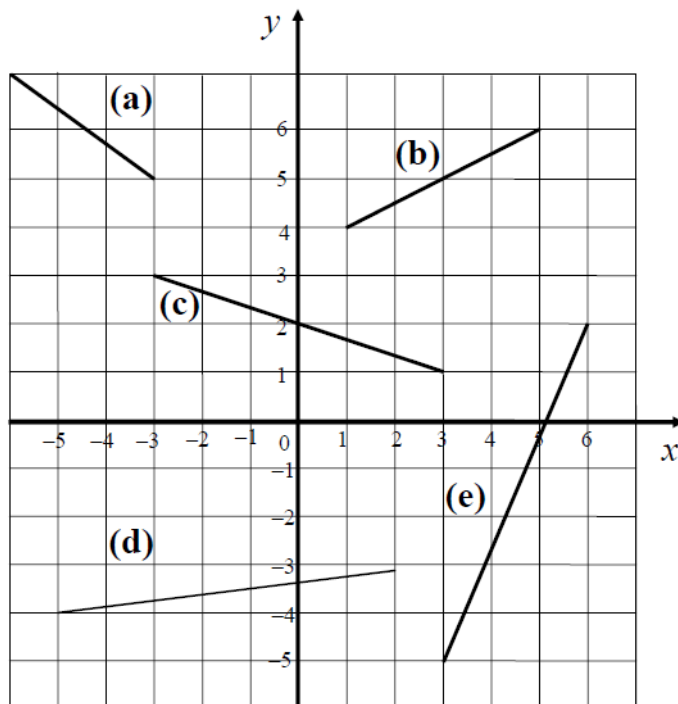
Eddie is flying his kite. He lets out 30 metres of string and moves 27 metres from his starting point.

How high is the kite above the ground?

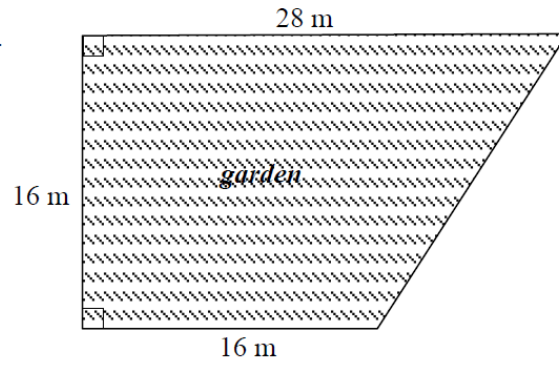


6.

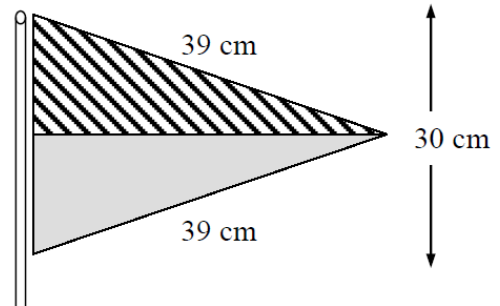
Calculate the length of each line in this diagram



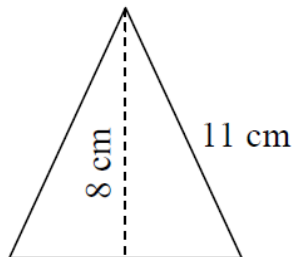
7. Calculate the perimeter of this garden.



8. Calculate the area of this triangular flag.



- 9.



An isosceles triangle has its longest side 11 cm and height 8 cm.

Find the perimeter of the triangle.