Name:_____   **Review II**   Date:_____

1. Given that each pair of similar triangles, indicate which side in the second triangle corresponds with side "x"?

a) $\triangle ABC \sim \triangle FDE$	b) $\triangle FOG \sim \triangle NEW$	c) $\triangle MON \sim \triangle POQ$
$x =$	$x =$	$x =$
d) $\triangle FIJ \sim \triangle HGF$	e) $\triangle TYW \sim \triangle TUV$	f) Challenge: $\triangle TAC \sim \triangle DOG$
$x =$	$x =$	$x =$

2. Given that following pairs of similar triangles, find the length of the missing side "x".

a)	b)
c)	d)
e)	f)

3. Indicate whether if the following statements are true OR false: Explain why.

   i) If two triangles are similar they have the same shape   TRUE   FALSE

   ii) If two triangles are similar, they have the same size   TRUE   FALSE

   iii) All equilateral triangles are similar   TRUE   FALSE

   vii) All squares are similar   TRUE   FALSE

4. Naomi wants to calculate the height of a tree. She is 1.2 m tall and casts a shadow of 2.75 m. At the same time, the shadow of the tree is 10.5 m long. How tall is the tree?

5. Given the following diagram with the two similar triangles, what is the height of the building?

1.8 m

2.22 m   8.45 m
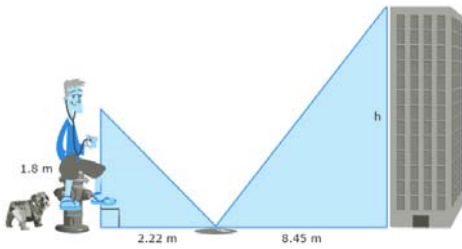
6. Jason is 1.8m tall and the sun casts a shadow of 2.5m. A building nearby has a shadow 180meters long. Using similar triangles, how high is the building?

$h = ?$

1.8m

h

2.5m

180m