

Q1 define the following tests

A).

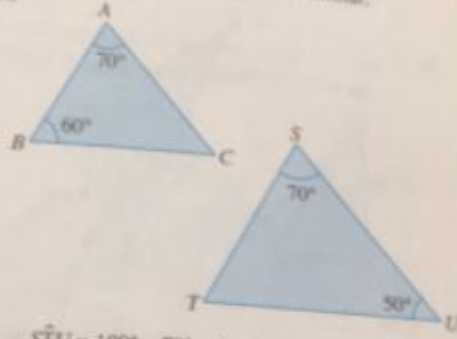
1. AA Similarity test
2. SSS Similarity test
3. SAS Similarity test

Also solve the Below Question

B).

2. Copy and complete the proof to show that each of the following pairs of triangles are similar.

(a)



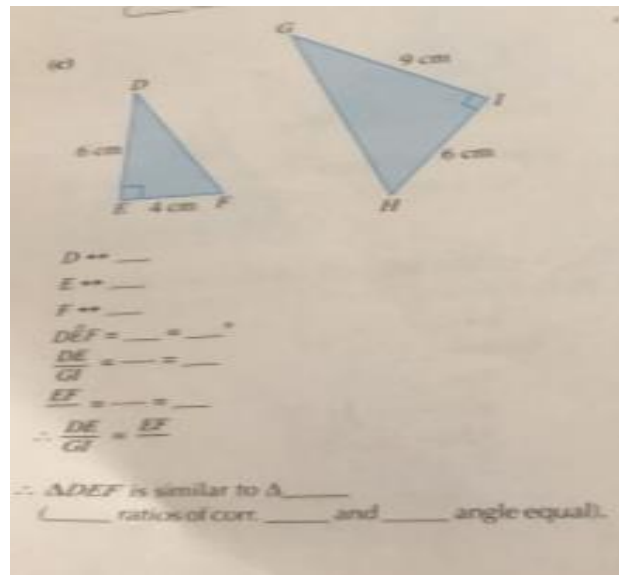
$\hat{S}\hat{T}U = 180^\circ - 70^\circ - 50^\circ$  ( $\angle$  sum of a  $\Delta$ )  
 $= \underline{\hspace{1cm}}^\circ$

$A \leftrightarrow \underline{\hspace{1cm}}$   
 $B \leftrightarrow \underline{\hspace{1cm}}$   
 $C \leftrightarrow \underline{\hspace{1cm}}$

$\hat{B}\hat{A}\hat{C} = \underline{\hspace{1cm}} = 70^\circ$   
 $\hat{A}\hat{B}\hat{C} = \underline{\hspace{1cm}} = \underline{\hspace{1cm}}^\circ$

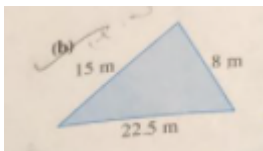
$\therefore \Delta ABC$  is similar to  $\Delta \underline{\hspace{1cm}}$   
( $\underline{\hspace{1cm}}$  pairs of corr.  $\underline{\hspace{1cm}}$  equal).

Q2:

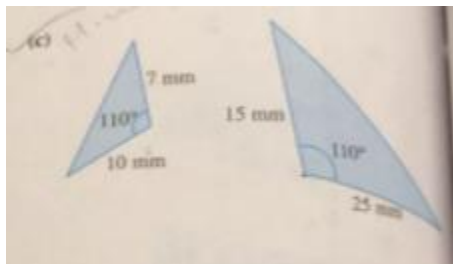


Q3. Determine which of the following pass the triangle test

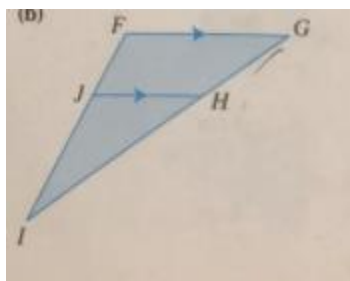
a.



b.

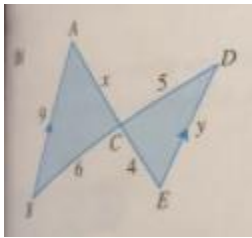


C.

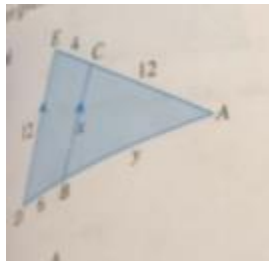


Q4: in each of the following fig , identify the similar Triangles and find the value of x and y , all length are given in cm

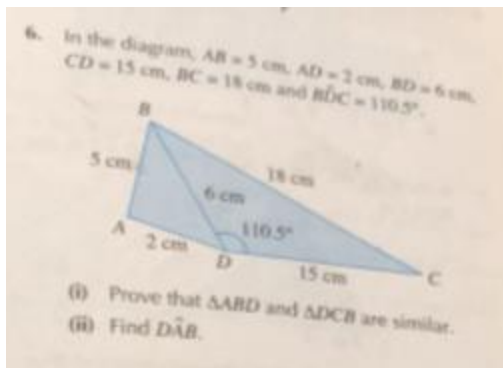
a.



b.



Q5:



Q6:

