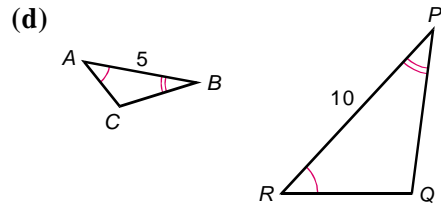
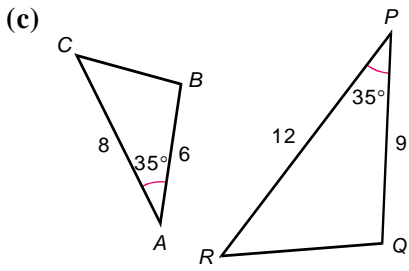
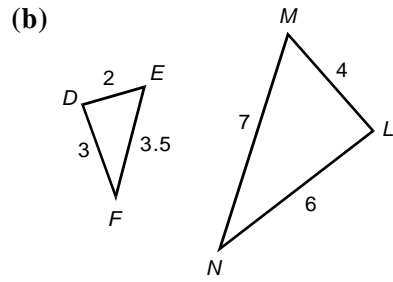
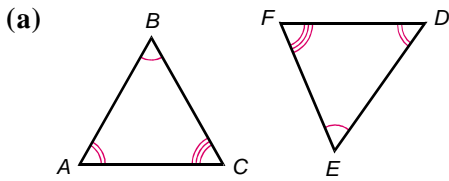


**Form 3 Mathematics  
(Similar Triangles)**

Name \_\_\_\_\_

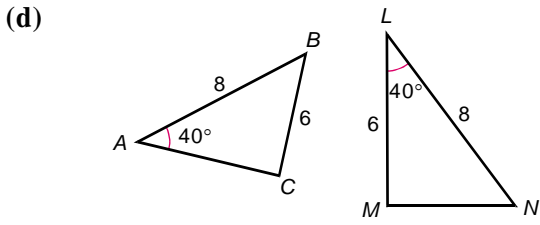
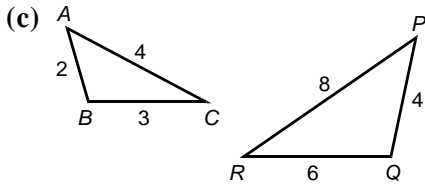
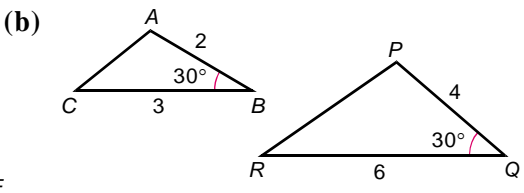
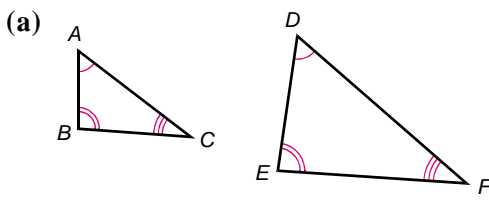
Date;

1. Each pair of triangles below are similar, write down the conditions for the similarity.



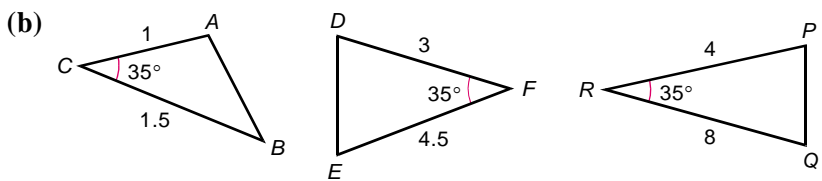
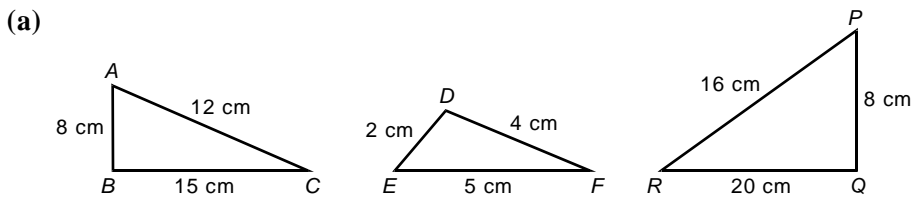
2. Must the following pairs of triangles be similar? If yes, write down the pairs of similar triangles and state the reasons.

[ Figures may not be drawn to scale. ]



3. In each of the following, which pair of triangles must be similar? State the reason.

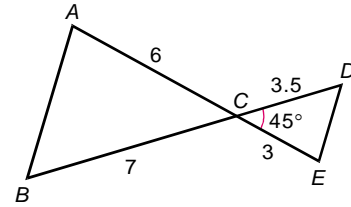
[ Figures may not be drawn to scale. ]



4. In the figure,  $ACE$  and  $BCD$  are straight lines.

(a) Find  $\angle ACB$ .

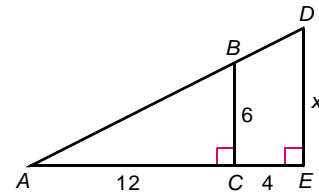
(b) Write down a pair of similar triangles and state the reason.



5. In the figure,  $ABD$  and  $ACE$  are straight lines.

(a) Must  $\triangle ABC$  and  $\triangle ADE$  be similar? If yes, state the reason.

(b) Find  $x$ .

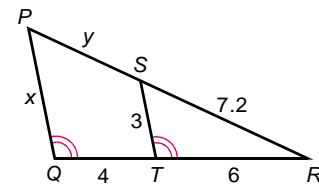


6. In the figure,  $PSR$  and  $QTR$  are straight lines.

(a) Must  $\triangle PQR$  and  $\triangle STR$  be similar? If yes, state the reason.

(b) Find  $x$ .

(c) Find  $y$ .



7. In the figure,  $ABD$  and  $ACE$  are straight lines.  
 $BC \parallel DE$ .

(a) Must  $\triangle ABC$  and  $\triangle ADE$  be similar? If yes, state the reason.

(b) Find  $x$ .

(c) Find  $y$ .

