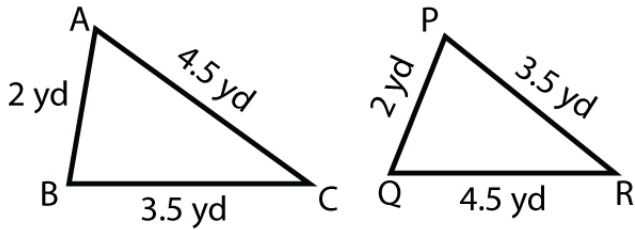


Name : \_\_\_\_\_

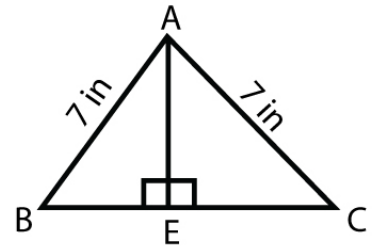
Score : \_\_\_\_\_ Date : \_\_\_\_\_

Congruent Triangles Worksheet

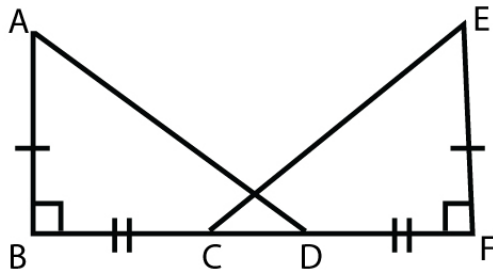
**1** Prove whether the given triangles are congruent or not. If yes, State the theorem.



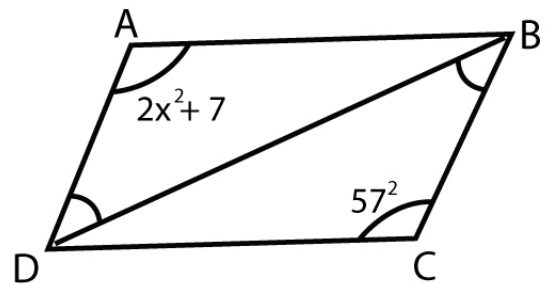
**2** In the given figure, Prove,  $\triangle AEB \cong \triangle AEC$



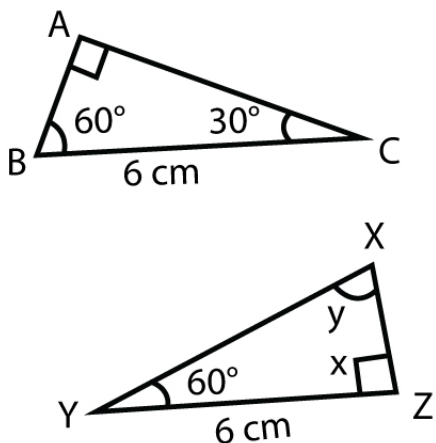
**3** In the above figure  $AB \cong EF$  and  $BC \cong DF$ . Show that  $\triangle ABD \cong \triangle EFC$



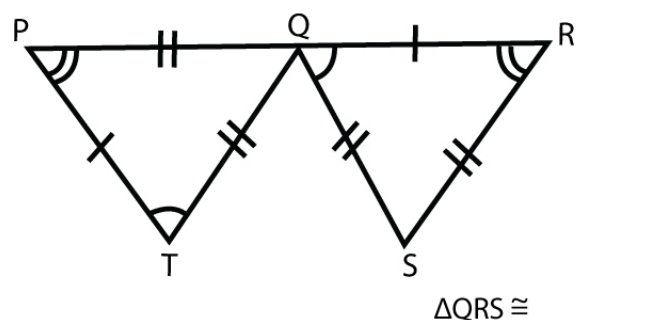
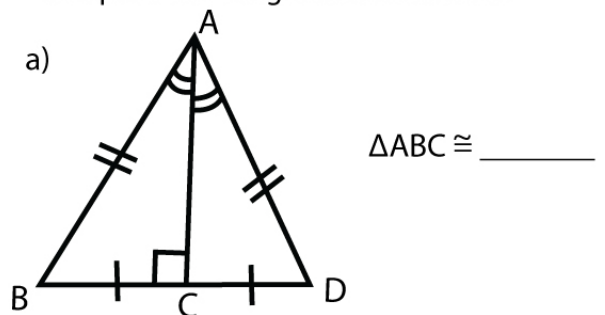
**4** Given  $\triangle DAB \cong \triangle BCD$   
Find x



**5** In the given congruent triangles under ASA,  
Find the value of x and y.  
Given  $\triangle ABC \cong \triangle XYZ$



**6** Complete the congruence statement



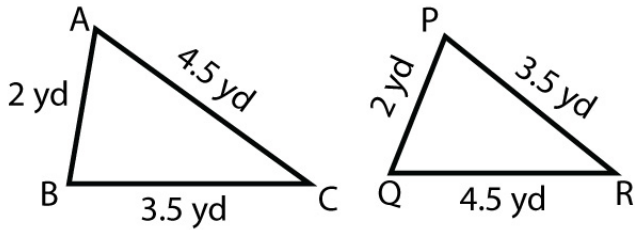
Name : \_\_\_\_\_

Score : \_\_\_\_\_ Date : \_\_\_\_\_

Congruent Triangles Worksheet

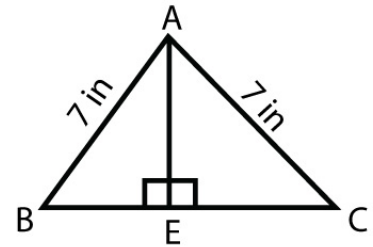
Answers

1 Prove whether the given triangles are congruent or not. If yes, State the theorem.

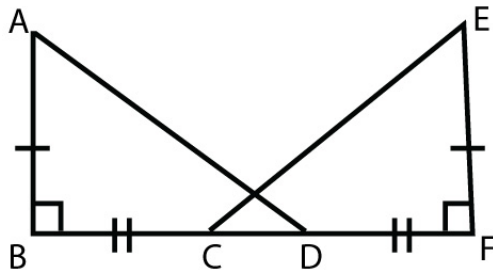


Yes, SSS

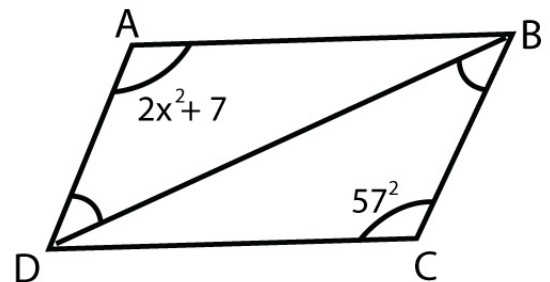
2 In the given figure, Prove,  $\triangle AEB \cong \triangle AEC$



3 In the above figure  $AB \cong EF$  and  $BC \cong DF$ . Show that  $\triangle ABD \cong \triangle EFC$

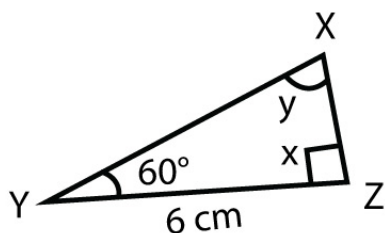
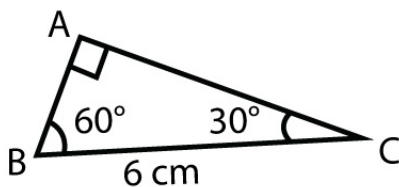


4 Given  $\triangle DAB \cong \triangle BCD$   
Find x



x = 5

5 In the given congruent triangles under ASA,  
Find the value of x and y.  
Given  $\triangle ABC \cong \triangle XYZ$



x = 30°, y = 90°

6 Complete the congruence statement

