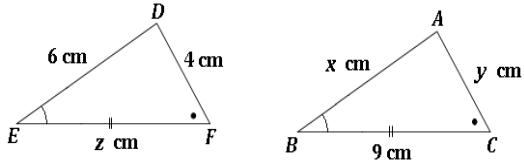
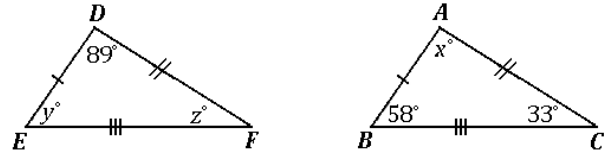


## Congruent Triangles Worksheet

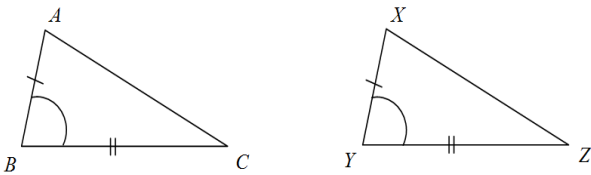
- 1) In what way is  $\triangle DEF$  congruent to  $\triangle ABC$ ? Find the value of each of the sides in the given pair of triangles.



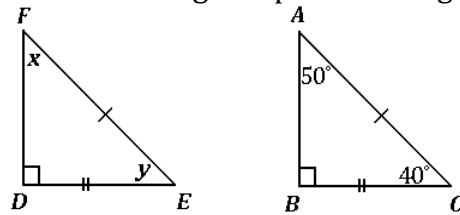
- 2) Give a brief reason why  $\triangle DEF$  and  $\triangle ABC$  are congruent. Find the value of each of the angles in the given pair of triangles.



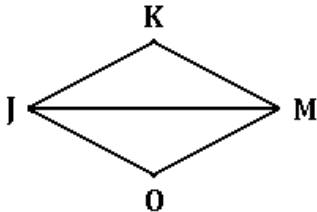
- 3) Can you give a brief reason why  $\triangle ABC$  is congruent to triangle  $\triangle XYZ$ ? If angle C is represented by  $2x - 10$  and angle Z is represented by  $3x - 40$ , find the measure of angle  $x$ .



- 4) Prove that  $\triangle DEF$  is congruent to  $\triangle ABC$ . Find the value of  $x$  &  $y$  from the information shown in the given pair of triangles.



- 5) Given:  $\overline{MK} \cong \overline{OK}$   
 $\overline{KJ}$  bisects  $\angle MKO$   
 Prove:  $\overline{KJ}$  bisects  $\angle MJO$



- 6) Given:  $\overline{AD} \parallel \overline{BC}$   
 $\overline{AD} \cong \overline{BC}$   
 Prove:  $\overline{AB} \cong \overline{CD}$

