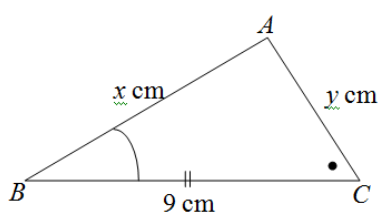
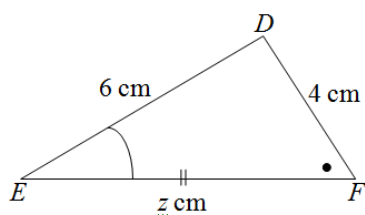


Name: _____

Congruent Triangles

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

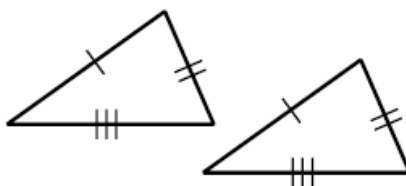


1) EF

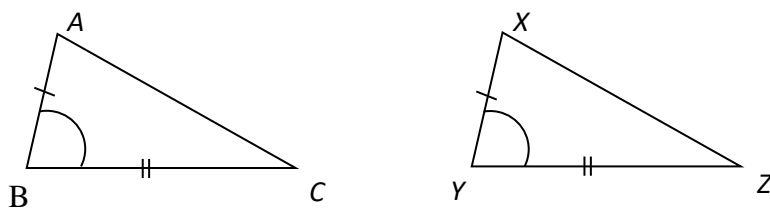
2) AB

3) AC

- B) 4) Determine which postulate can be used to prove that the triangles are congruent. If it is not possible to prove that they are congruent, write *not possible*.

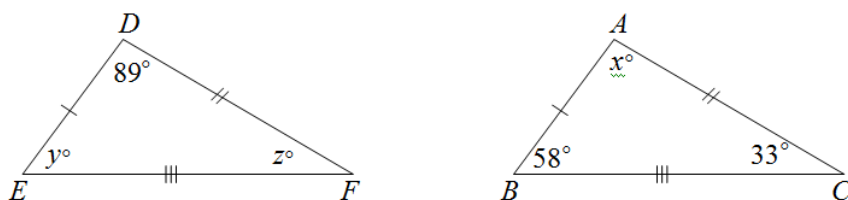


- C) Can you give a brief reason why $\triangle ABC$ is congruent to triangle $\triangle XYZ$? If angle C is represented by $2x - 10$ and angle Z is represented by $3x - 40$.



- 5) Find the measure of angle x.

- D) 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.



6) $m\angle EFD$

7) $m\angle FED$

8) $m\angle EFD$