1. Complete the sentences

Triangle A is congruent to triangle _____

Triangle A is similar to triangle _____

2. When a shape is enlarged, it always becomes bigger. Tick whether this statement is true or false.

True [ ] False [ ]

Give a reason for your answer.

3. Here are two congruent triangles. State the condition that shows that they are congruent.

5 cm

7 cm

4 cm

5 cm

7 cm

4 cm
4 Enlarge the shape by a scale factor of -2 with centre of enlargement (1, 1)

5 Work out the size of angle $x$.

Diagram not drawn accurately
a) Prove that triangle ABC and triangle DEC are similar.

b) Find the length CD.

A triangular prism has a volume of 100 cm³

Work out the volume of a triangular prism whose sides are three times as long as this one.
8. The two flags are similar.

If the length of the original flagpole is 50 cm, what is the value of $x$?

$$x = \underline{\hspace{2cm}} \text{cm}$$

9. ABC is an equilateral triangle.
Prove that triangle ADC is congruent to triangle ADB.