Similarity Worksheet 1

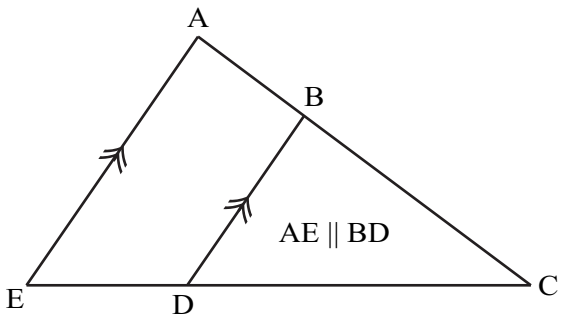

Figure 1

Refer to Figure 1 to answer questions 1 - 4 to prove similarity of triangles.

1. Is $\angle C \cong \angle C$? How do you know?

2. What can you claim using Substitution property ?

3. Name of the property because of which $\angle EAC \cong \angle DBC$ is true.

4. What can you claim using Angle-Angle postulate?

5. $\triangle ABC$ has angles of 55° and 78°. What is the measure of the remaining angle?

6. $\triangle DEF$ has angles of 55° and 47°. What is the measure of the remaining angle?

7. Is it true that $\triangle ABC \sim \triangle DEF$? How do you know?

8. $\triangle GHI$ has angles of 38° and 26°. What is the measure of the remaining angle?

9. $\triangle JKL$ has angles of 26° and 115°. What is the measure of the remaining angle?

10. Are the triangles similar? How do you know?
