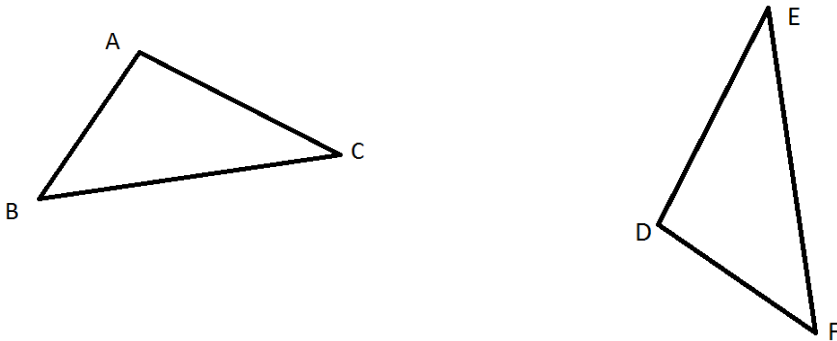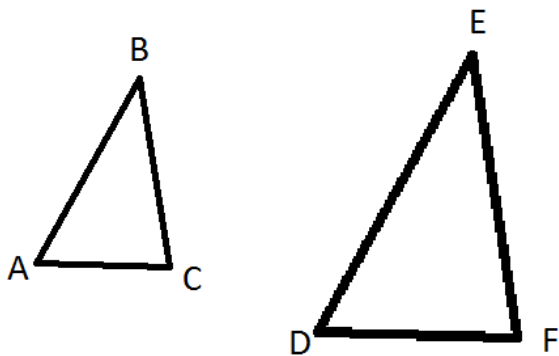What do we know about dilations?
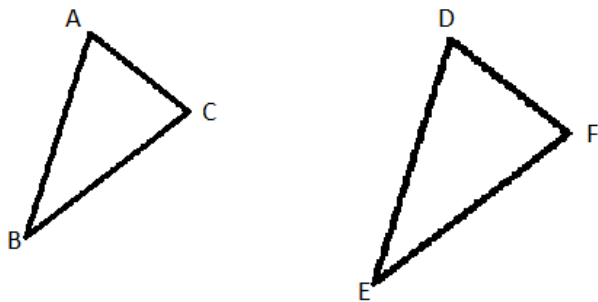
1) $\angle$ BAC $\cong$ $\angle$EDF and $\angle$ABC $\cong$ $\angle$DFE, prove that the triangles are similar.

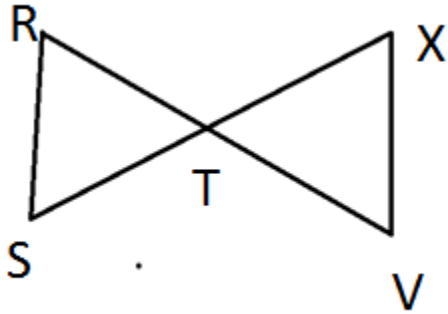2) $\angle$A $\cong$ $\angle$D and $\angle$ABC $\cong$ $\angle$DEF, prove that the triangles are similar.
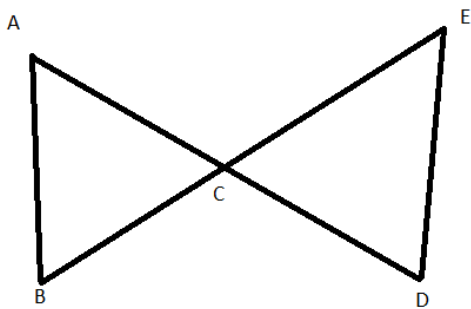
3) $\angle$ABC $\cong$ $\angle$DEF and $\angle$A $\cong$ $\angle$D, prove that the triangles are similar.
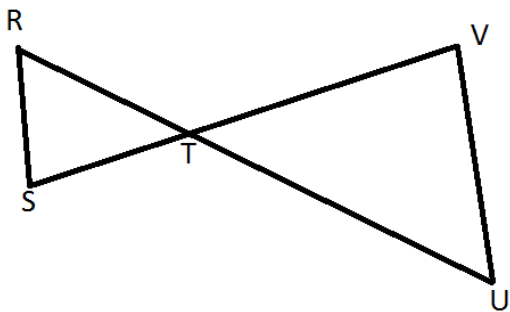
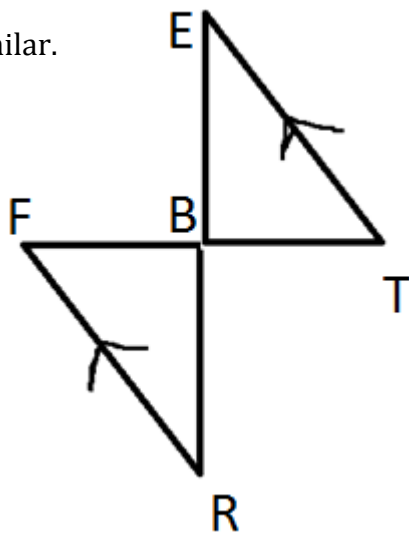4) $\angle R \cong \angle X$, prove that the triangles are similar.

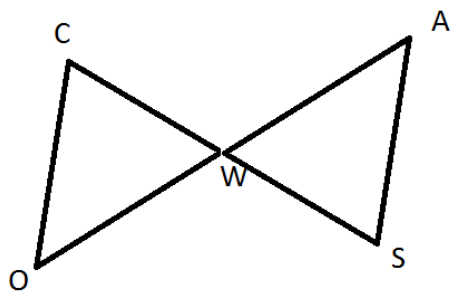5) $\angle CAB \cong \angle CED$, prove that the triangles are similar.

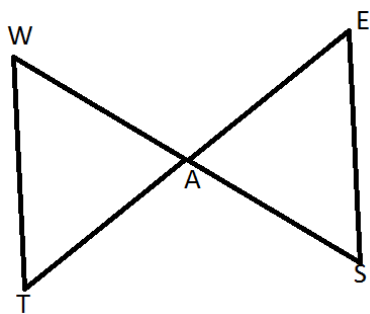6) $\angle R \cong \angle U$, prove that the triangles are similar.

7) $\overline{FR} \parallel \overline{ET}$, prove that the triangles are similar.
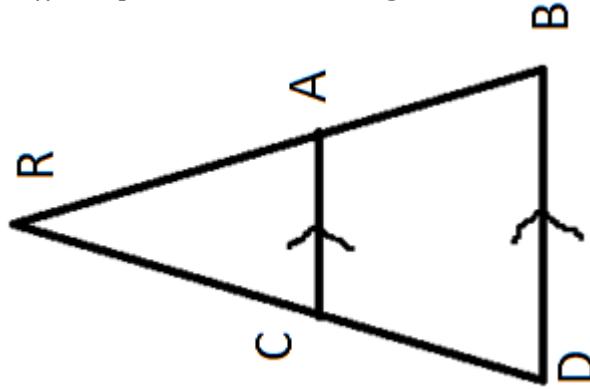

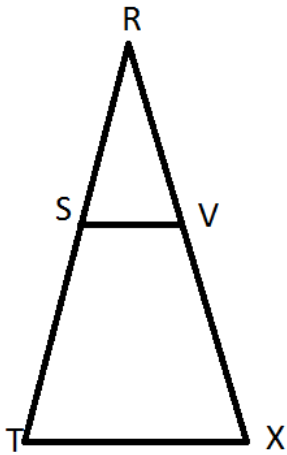8) $\overline{CO} \parallel \overline{AS}$, prove that the triangles are similar.

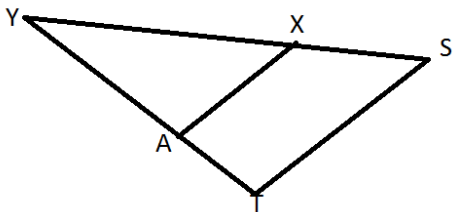9) $\overline{WT} \parallel \overline{ES}$, prove that the triangles are similar.

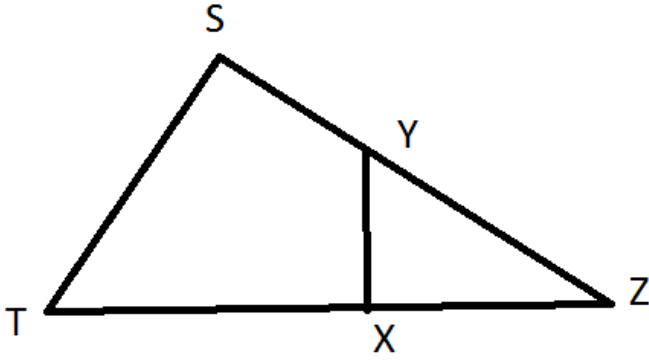10) $\overline{CA} \parallel \overline{DB}$, prove that the triangles are similar.

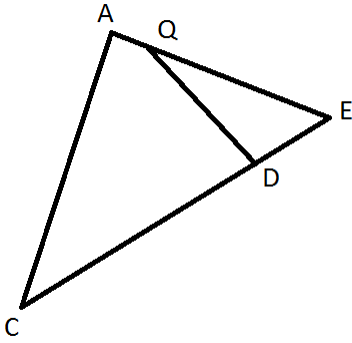11) $\overline{SV} \parallel \overline{TX}$, prove that the triangles are similar.

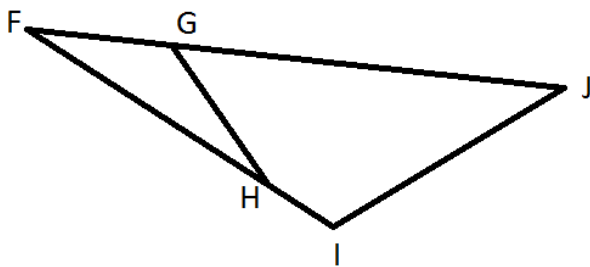12) $\overline{AX} \parallel \overline{TS}$, prove that the triangles are similar

13) ∠YXZ ≅ ∠S, prove that the triangles are similar.

14) ∠QDE ≅ ∠A, prove that the triangles are similar
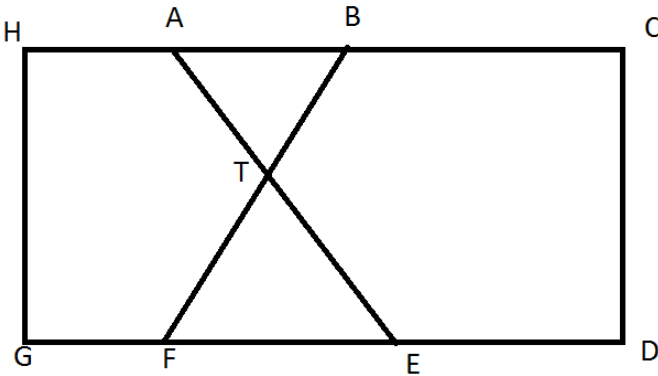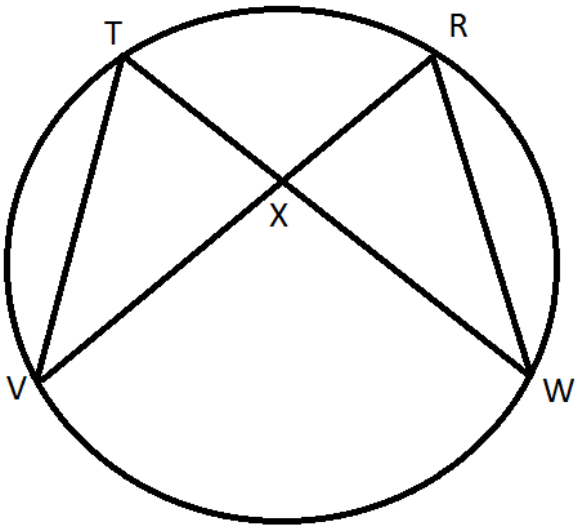

15) ∠GFH ≅ ∠I, prove that the triangles are similar.

Challenge:

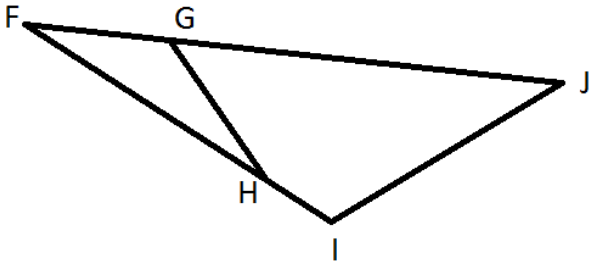1) $\overline{HC} \parallel \overline{GD}$, prove that the triangles are similar (see if you can find them)

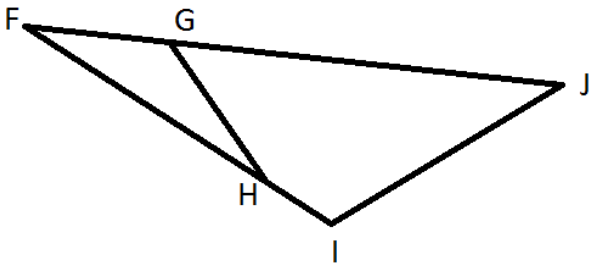2) ∠TVX ≅ ∠RWX, prove that the triangles are similar (see if you can find them)

Exit Ticket

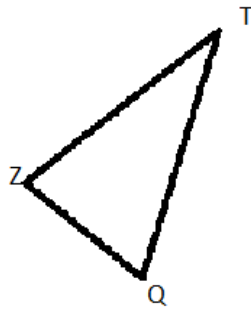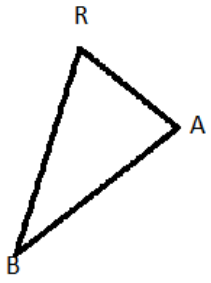Directions – write a similarity statement for each of the pairs of triangles below.

1) ∠HGF ≅ ∠I

1) ∠HGF ≅ ∠I

2) ∠BAR ≅ ∠TZQ and ∠B ≅ ∠T

3) ∠BAR ≅ ∠TZQ and ∠B ≅ ∠T