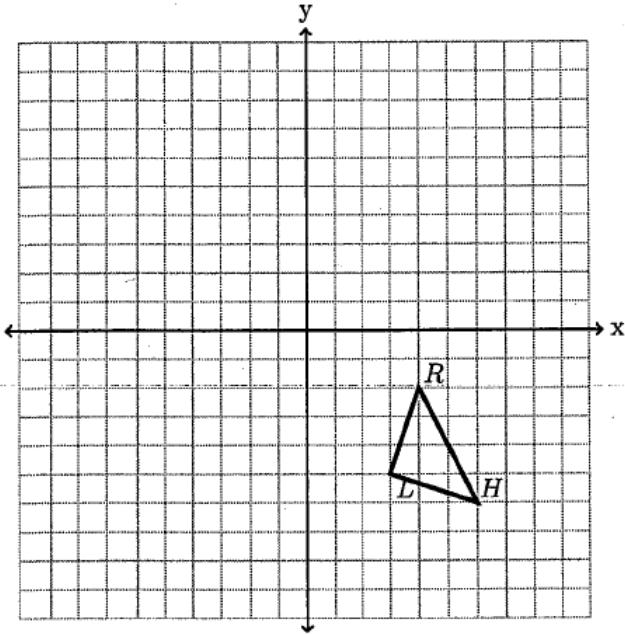


DIN:

Dilate $\triangle RHL$ by a scale factor of 2 centered at $H(6, -6)$



What do you notice?

Dilations create _____

_____ = _____

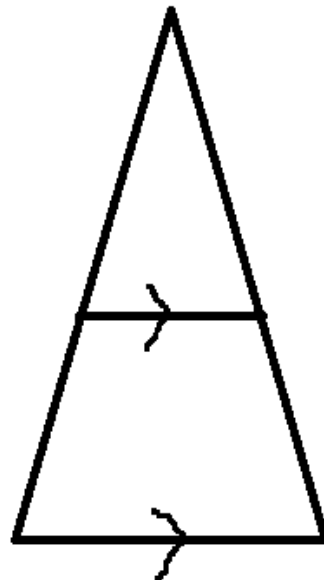
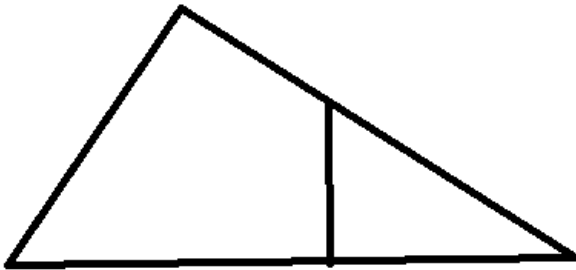
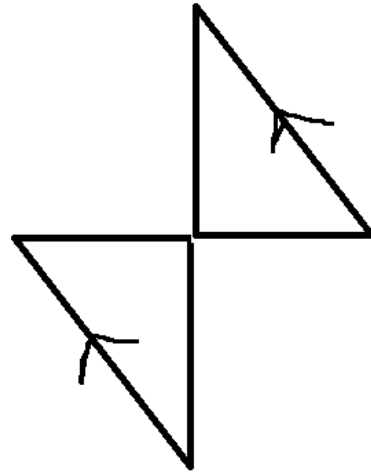
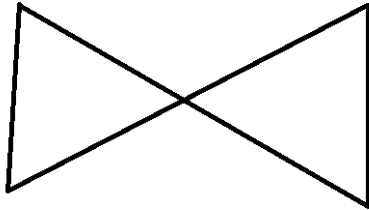
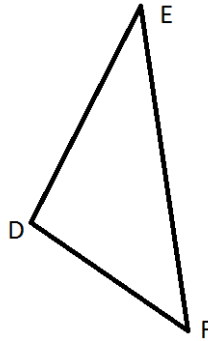
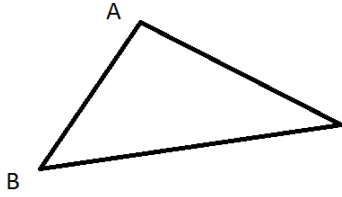
So, for dilations _____ STAY THE SAME

Two triangles that are DILATED are _____

WAYS TO PROVE TRIANGLES ARE _____

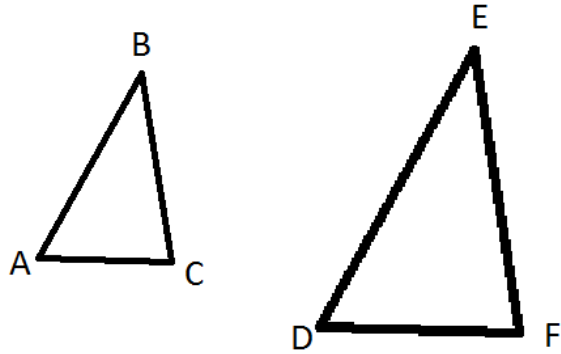
Labeling Practice

1) Label that $\angle BAC \cong \angle EDF$ and $\angle ABC \cong \angle DFE$, and $\angle C \cong \angle E$

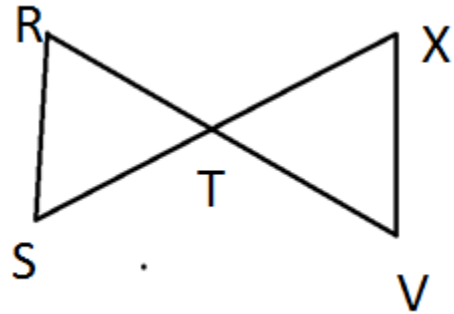


Directions: Give the set of triangles below, determine which two triangles are similar to each other.

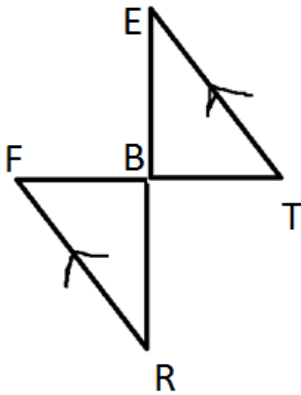
1) $\angle A \cong \angle D$ and $\angle ABC \cong \angle DEF$



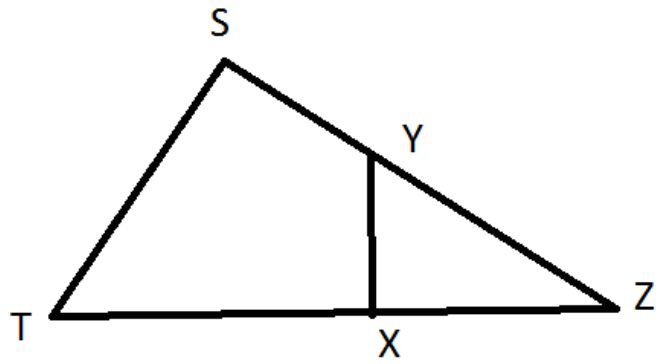
2) $\angle R \cong \angle X$



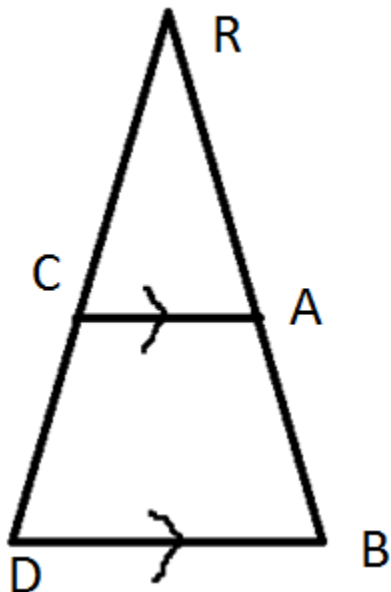
3) $\overline{FR} \parallel \overline{ET}$



4) $\angle YXZ \cong \angle S$

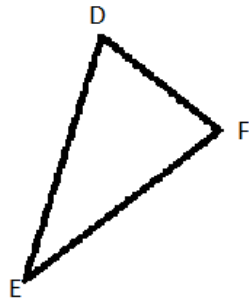
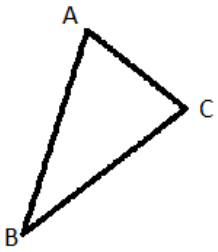


5) $\overline{CA} \parallel \overline{DB}$

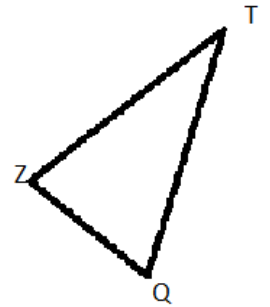


Practice!!!! – Label the pictures and write the similarity statements between the triangles.

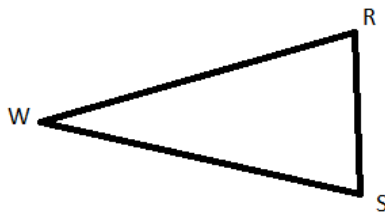
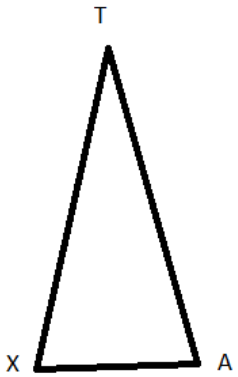
1) $\angle ABC \cong \angle DEF$ and $\angle A \cong \angle D$



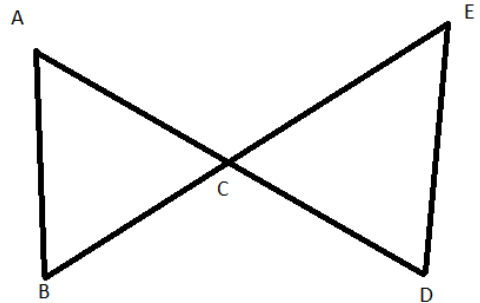
2) $\angle R \cong \angle Q$ and $\angle QZT \cong \angle RAB$



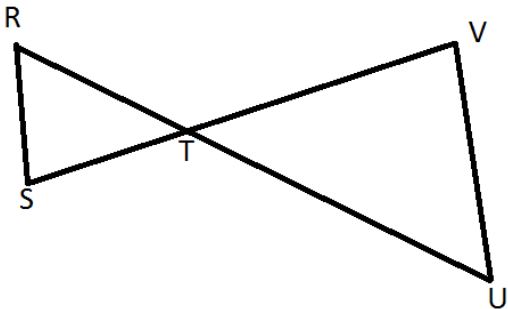
2) $\angle T \cong \angle W$ and $\angle TAX \cong \angle WRS$



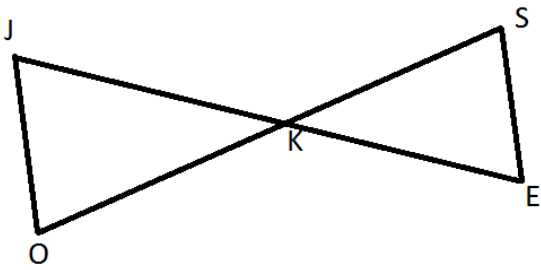
3) $\angle CAB \cong \angle CED$



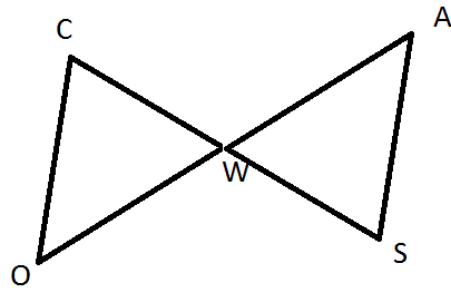
4) $\angle R \cong \angle U$



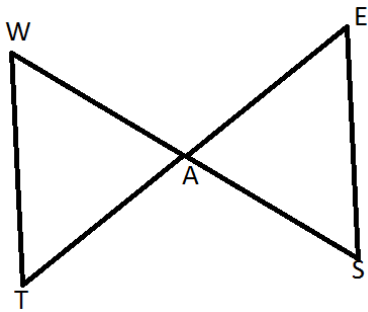
4) $\angle OJK \cong \angle KSE$



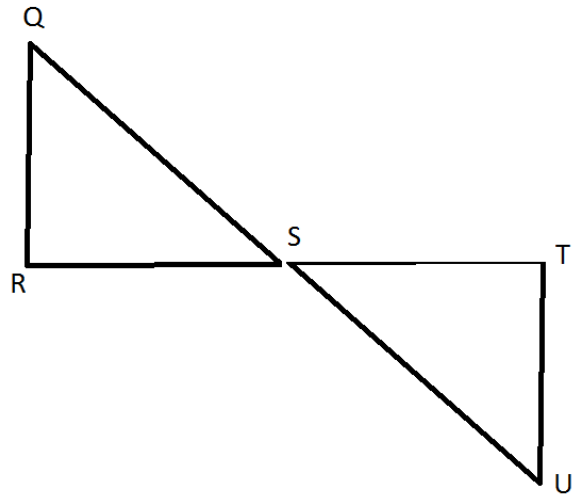
6) $\overline{CO} \parallel \overline{AS}$



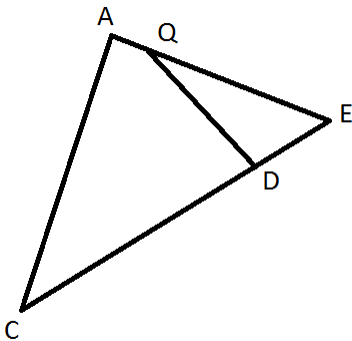
5) $\overline{WT} \parallel \overline{ES}$



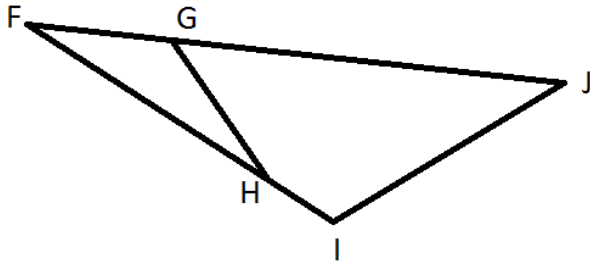
6) $\overline{QR} \parallel \overline{TU}$



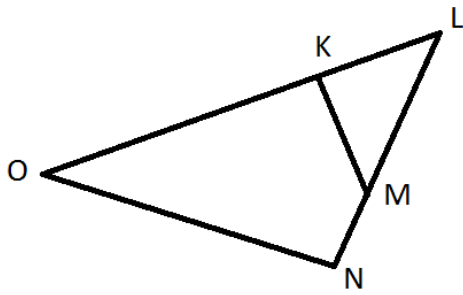
6) $\angle QDE \cong \angle A$



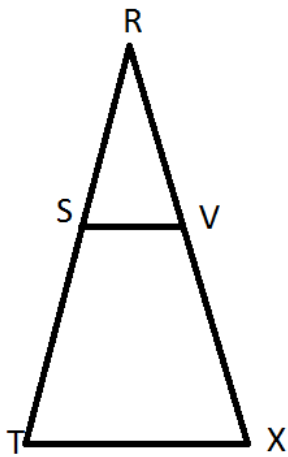
7) $\angle GFH \cong \angle I$



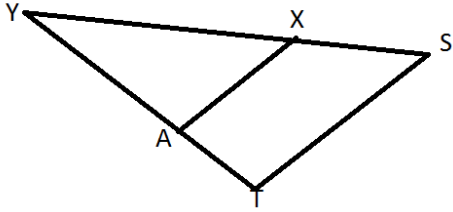
8) $\angle N \cong \angle MKL$



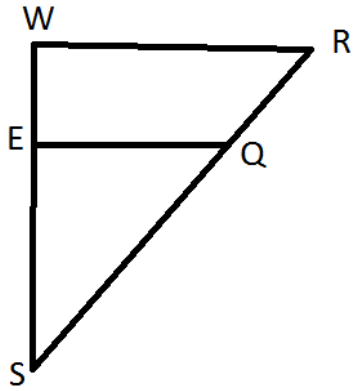
9) $\overline{SV} \parallel \overline{TX}$



10) $\overline{AX} \parallel \overline{TS}$

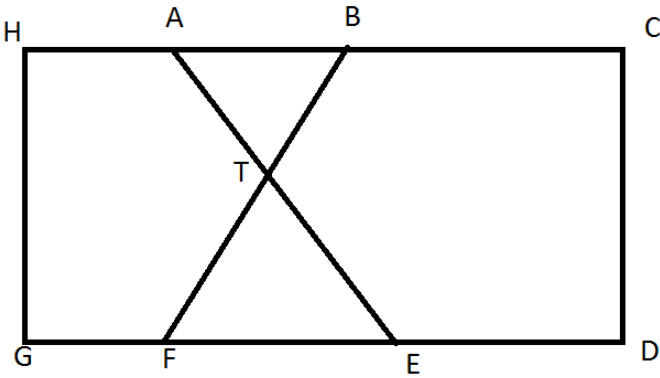


11) $\overline{EQ} \parallel \overline{WR}$

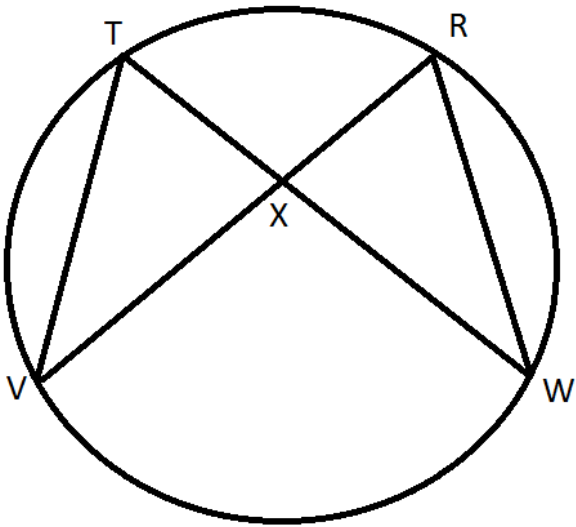


Challenge:

1) $\overline{HC} \parallel \overline{GD}$



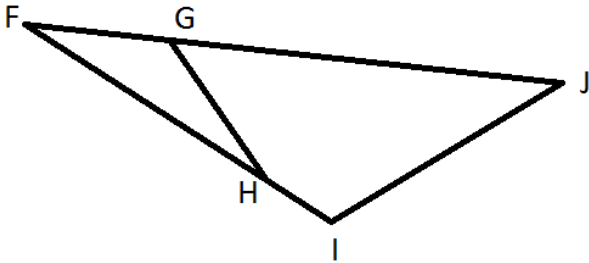
2) $\angle TVX \cong \angle RWX$



Exit Ticket

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

1) $\angle HGF \cong \angle I$



2) $\angle BAR \cong \angle TZQ$ and $\angle B \cong \angle T$

