Name: _____
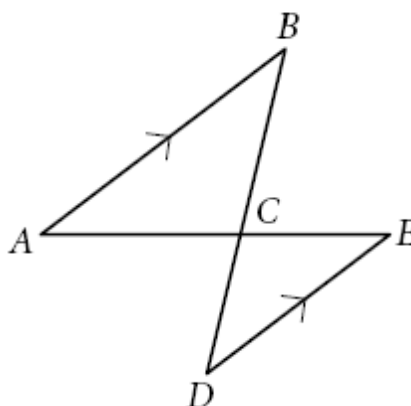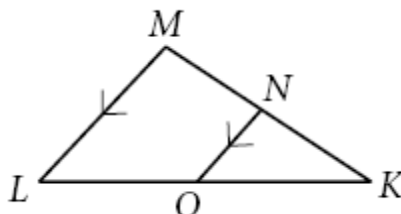
Similar Triangles

1) Prove that $\triangle BAC \sim \triangle DEC$

2) Prove that $\triangle MLK \sim \triangle NOK$

3) Prove that any two equilateral triangles are similar.

4) Prove that any two regular polygons that have the same number of sides are similar.

5) In $\triangle ABC$, the midpoint of $\overline{AC}$ is M and the midpoint of $\overline{BC}$ is N.

   1) Show that $\triangle ABC \sim \triangle MNC$.

   2) What is their ratio of similitude?

6) In $\triangle ABC$, the midpoint of $\overline{AC}$ is M, the midpoint of $\overline{BC}$ is P, the midpoint of $\overline{BC}$ is N, and the midpoint of $\overline{NC}$ is Q.

   1) Show that $\triangle ABC \sim \triangle PQC$

   2) What is their ratio of similitude?