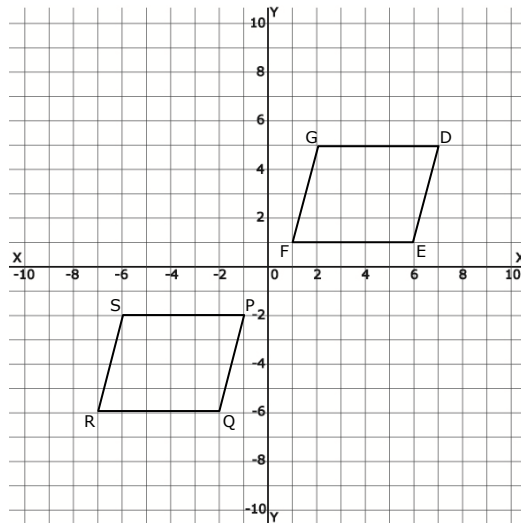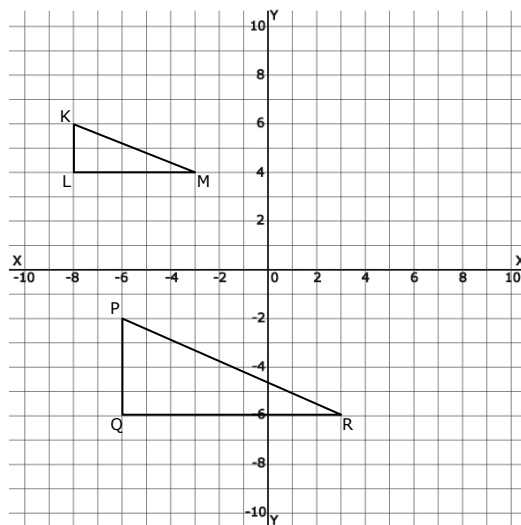Name _____          Date _____

## Rigid Motions and Congruent Triangles - Guided Lesson

Complete the following problems: Use the definition of congruence in terms of rigid motions to determine whether the two figures are congruent and explain your answer.

1) You can map DEFG to PQRS by the translation. Find the coordinate notation.



2) ΔKLM and ΔPQR have different sizes. Since rigid motions preserve distance, there is no sequence of rigid motions that will map Δ KLM to PQR. Are the triangles congruent?

3) You can map JKLM to NOPQ by a reflection followed by a translation. Provide the coordinate notation for each.