Name _____   Date_____

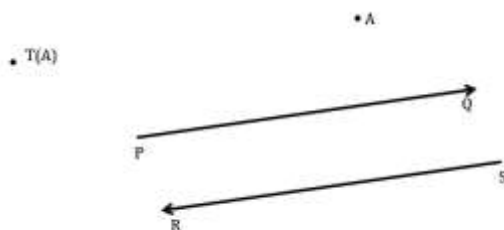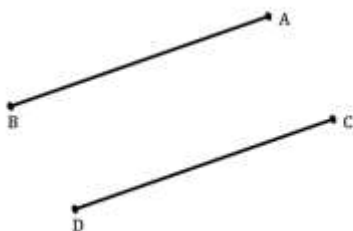# Lesson 2: Definition of Translation and Three Basic Properties

1. Name the vector in the picture below.

2. Name the vector along which a translation of a plane would map point A to its image $T(A)$.

3. Is Maria correct when she says that there is a translation along a vector that will map segment AB to segment CD? If so, draw the vector. If not, explain why not.

Assume there is a translation that will map segment AB to segment CD shown above. If the length of segment CD is 8 units, what is the length of segment AB? How do you know?