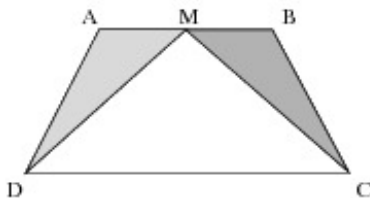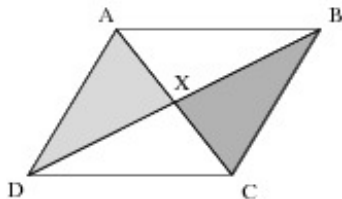# G-CO Are the Triangles Congruent?

Task

In each of the following diagrams, two triangles are shaded. Based on the information given about each diagram, decide whether there is enough information to prove that the two triangles are congruent.
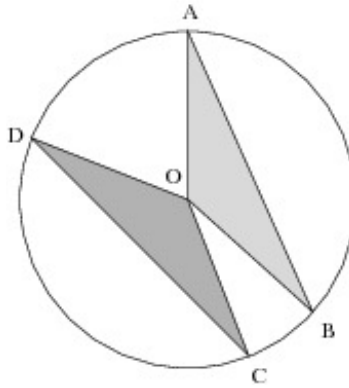
a. In the figure below, $ABCD$ is a trapezoid with $\overline{AB} \parallel \overline{CD}$, and M is the midpoint of side $\overline{AB}$.

b. In the figure below, $ABCD$ is a parallelogram.

c. In the figure below, the circle is centered at point O, and the arc AB is congruent to the arc CD.