G.CO.8
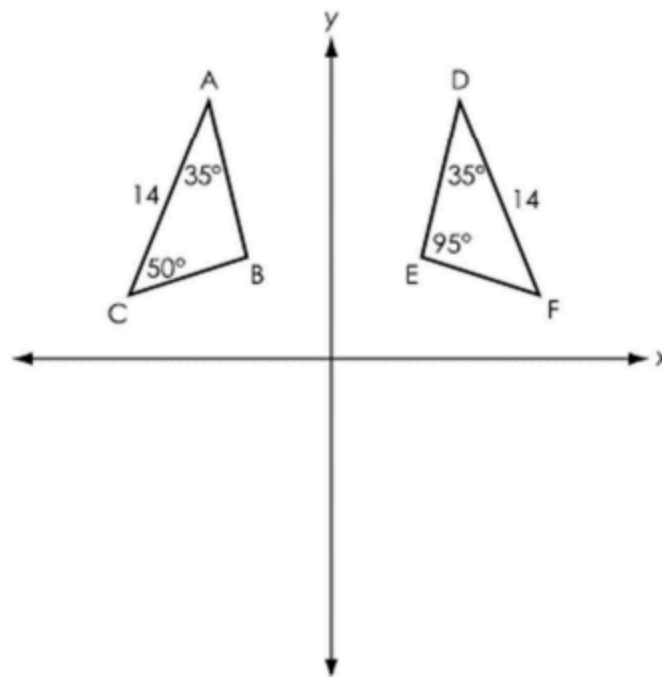**Explain how the criteria for triangle congruence (ASA, SAS, and SSS) follow from the definition of congruence in terms of rigid motions.**

G.CO.8   OH.2024.Q33

Triangle DEF is the image of triangle ABC after a reflection across the y-axis, as shown.

Complete the sentence that can be used to prove the two triangles are congruent.

The triangles can be proved to be congruent by calculating the measure of
[✓] and then using the [✓] criterion for

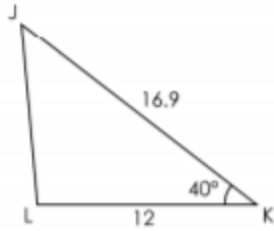| ✔ |
| --- |
| angle B |
| angle F |

✔
Side-Side-Side
Side-Angle-Side
Angle-Side-Angle

congruence.
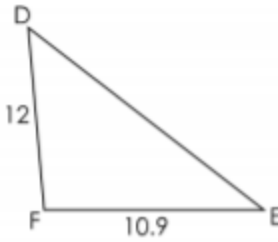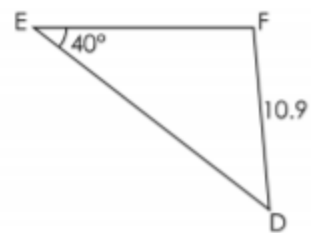
Triangle JKL is shown.   Triangle DEF is congruent to triangle JKL.
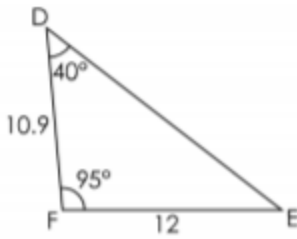
Which triangle could be DEF?
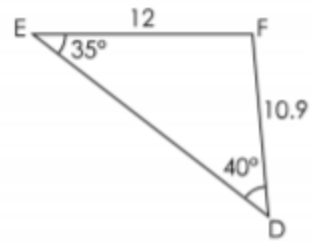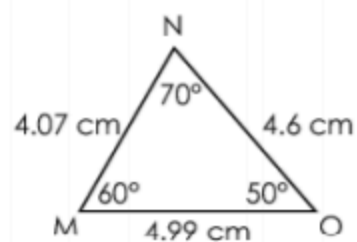

(A)

(C)

(B)

(D)

Triangle MNO is shown.

Which triangle can be shown to be congruent to triangle MNO with only the given information?

(A)

(C)

(B)

(D)