

2.3

(A) 1. No.

Counter Example:



$$\overline{AB} \cong \overline{DE}$$

$$\triangle ABC \not\cong \triangle DEF$$

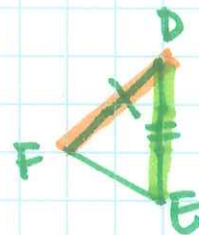
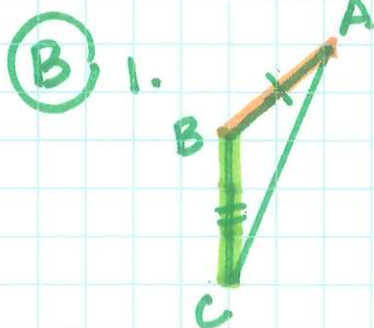
2. No.

Counter Example:



$$\angle B \cong \angle E$$

$$\triangle ABC \not\cong \triangle DEF$$

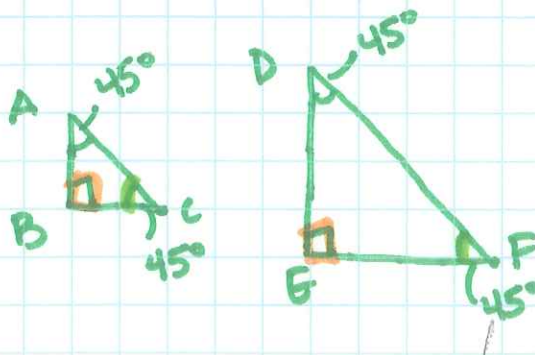


$$\begin{aligned} \overline{AB} &\cong \overline{DF} \\ \overline{BC} &\cong \overline{DE} \\ \triangle ABC &\not\cong \triangle DEF \end{aligned}$$

COUNTER EXAMPLE

2. No.

Counter Example:



$$\angle B \cong \angle E$$

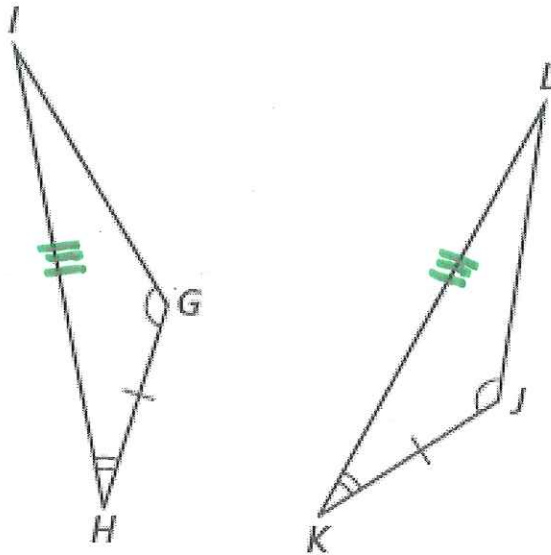
$$\angle C \cong \angle F$$

$$\triangle ABC \not\cong \triangle DEF$$

Labsheet 2.3

Questions C-E

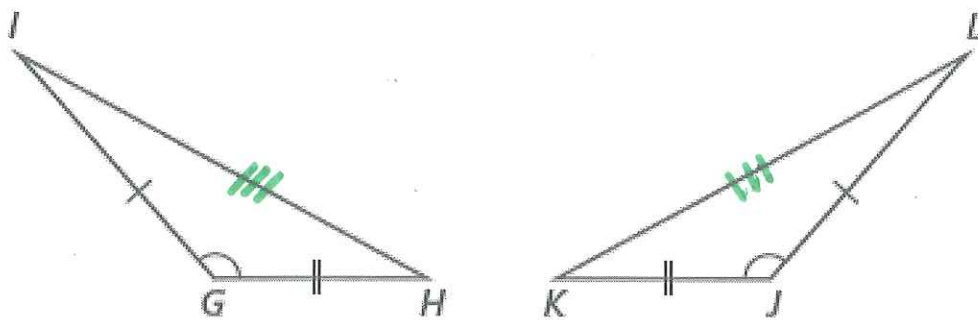
C. 1.



• Angle-Side-Angle (ASA)
 • Yes, this guarantees congruence.

$\angle G \cong \angle J$ angle
 $\overline{GH} \cong \overline{JK}$ side
 $\angle H \cong \angle K$ angle

2.



Side-Angle-Side (SAS)

• Yes this guarantees congruence.