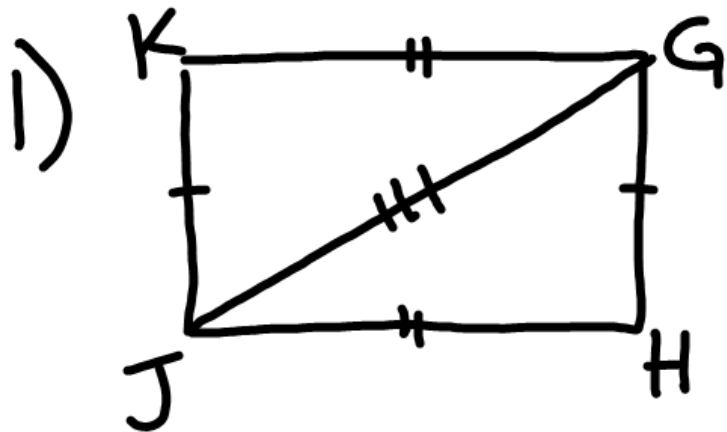


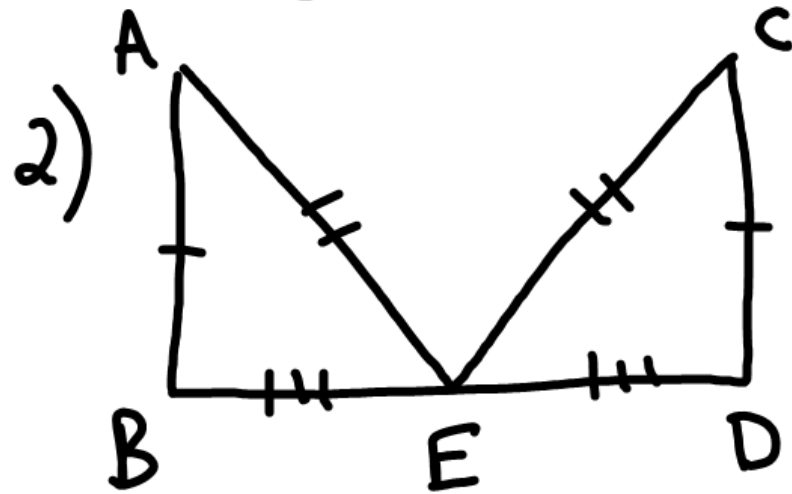
Warm-up

Can you prove the Δ 's Congruent? How?



Is $\Delta KJG \cong \Delta HGT$?

Yes by
SSS



Given: E is midpoint of \overline{BD}

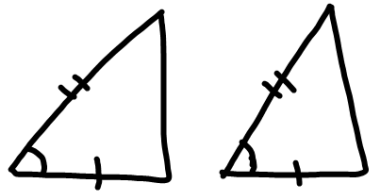
Is $\Delta ABE \cong \Delta CDE$?

Yes, SSS

4.4 Prove Δ 's Congruent by SAS & HL

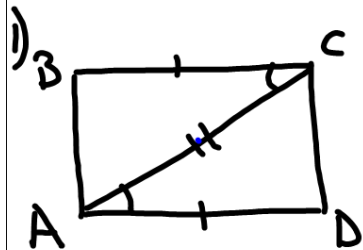
* Side-Angle-Side or Hypotenuse-Leg

For SAS,



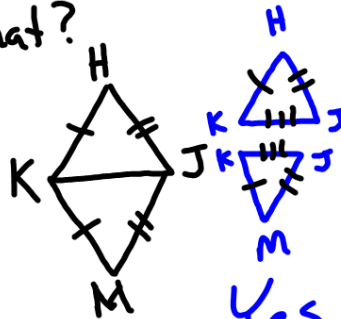
* Congruent angle must be in between the 2 (included) Congruent sides.

Are the Δ 's \cong ? By What?



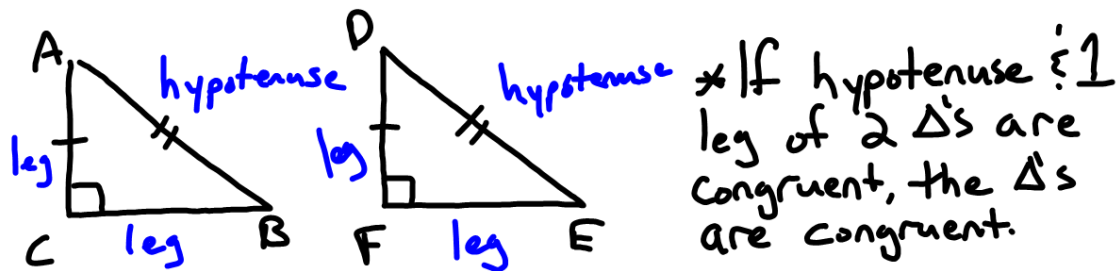
Yes by SAS

2)

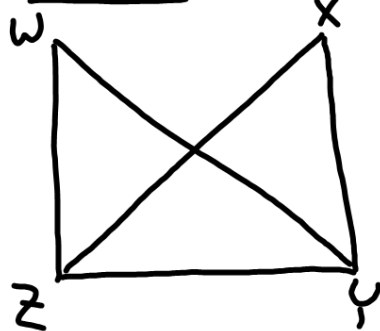


Yes by SSS

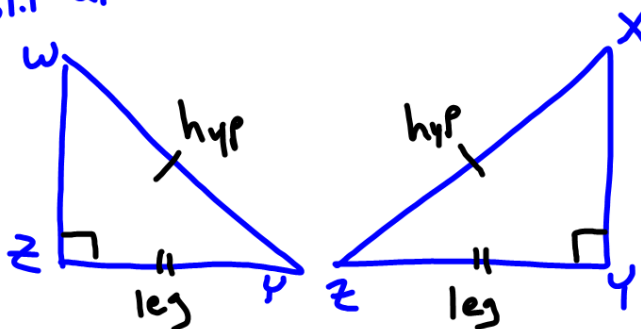
For HL, Must have right triangles



Given: $\overline{WY} \cong \overline{XZ}$, $\overline{WZ} \perp \overline{ZY}$, $\overline{XY} \perp \overline{ZY}$.
Are the Δ s congruent?



Split up!



Yes! HL

$$\Delta WZY \cong \Delta XYZ$$