

10-26-17 5th Geo

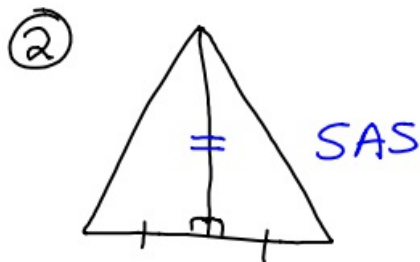
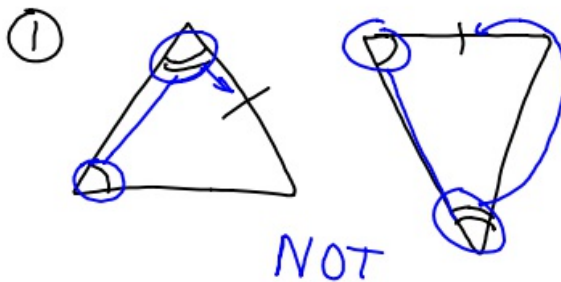
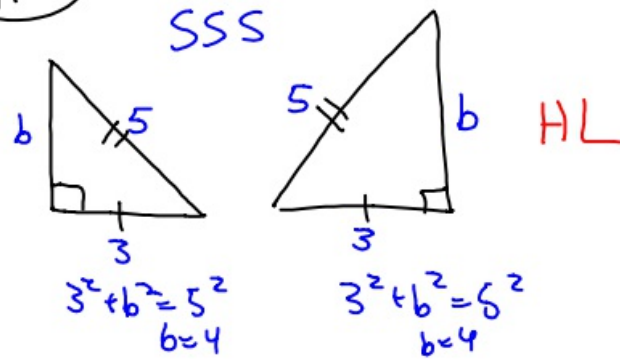
Congruent

SSS
SAS
AAS(SAA)
ASA
HL

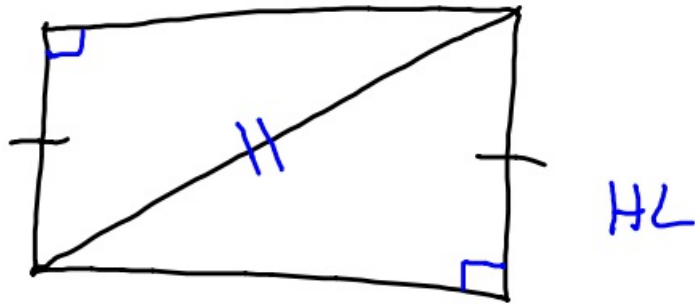
Not Congruent

ASS (SSA)
AAA

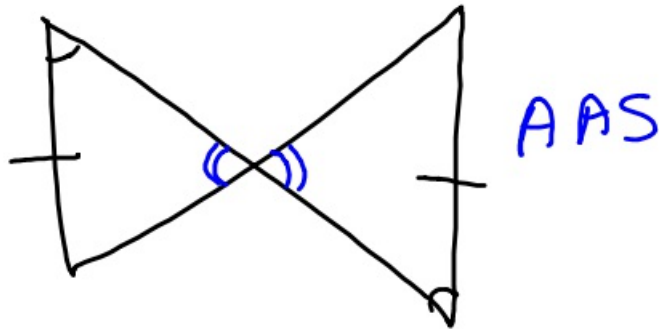
HL



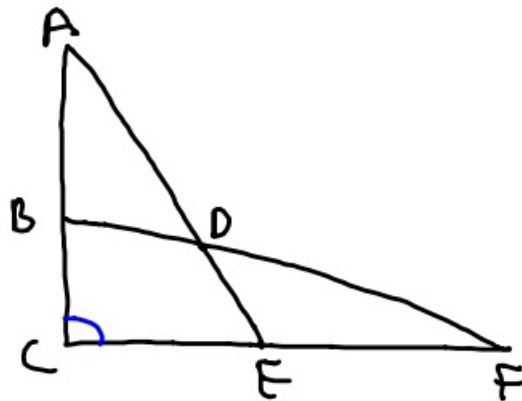
③



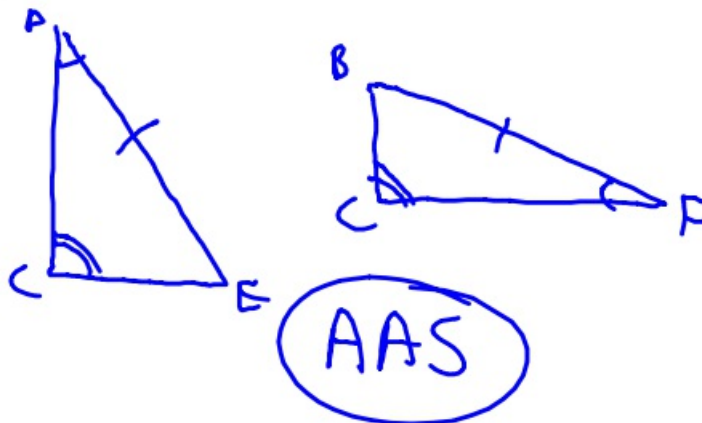
④

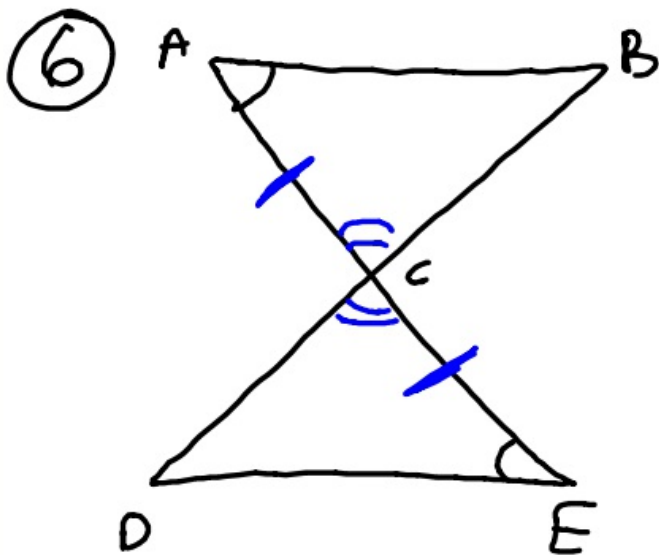


⑤



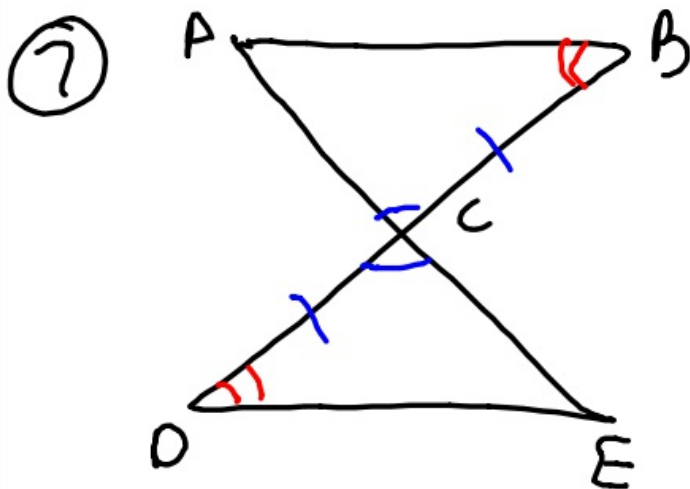
Is $\triangle ACE \cong \triangle FCB$ if
 $AE = BF$ and $\angle F = \angle A$.





What must be true to prove $\triangle ABC \cong \triangle EDC$ by ASA?

$$AC = CE$$



C is midpoint of \overline{BD} ✓ What must be true to prove $\triangle ABC \cong \triangle EDC$ by ASA?

$$\angle D = \angle B$$

10-26-17 6th Geo

Proves \cong

SAS

SSS

ASA

AAS (SAA)

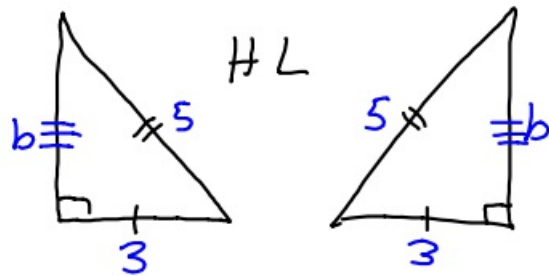
HL

Doesn't

ASS (SSA)

AAA

①



HL

$$3^2 + b^2 = 5^2$$

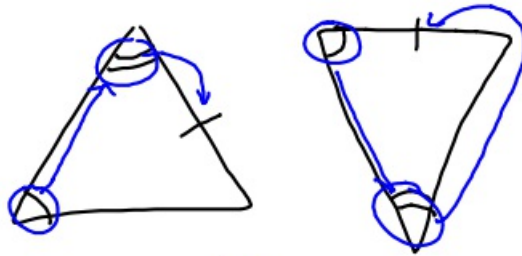
$$b = 4$$

$$3^2 + b^2 = 5^2$$

$$b = 4$$

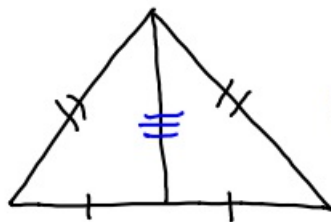
SSS

②



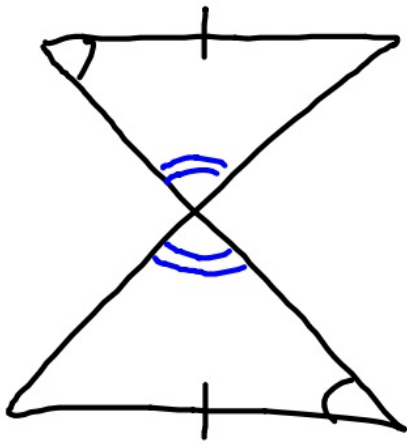
No

③



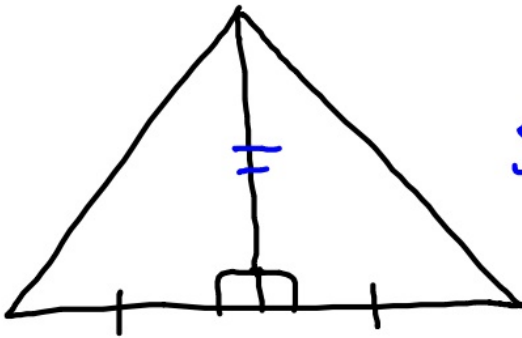
SSS

④



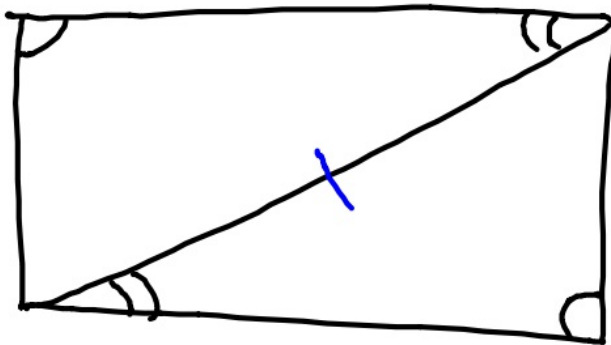
AAS

⑤

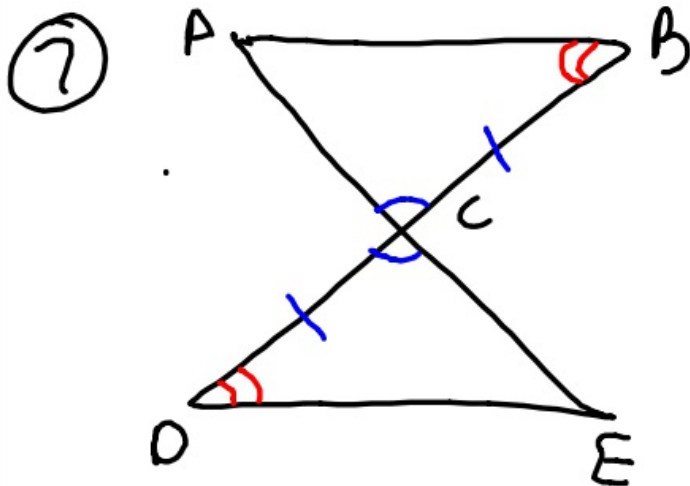


SAS

⑥

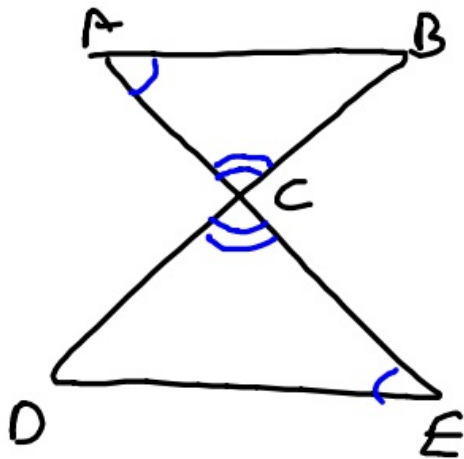


AAS



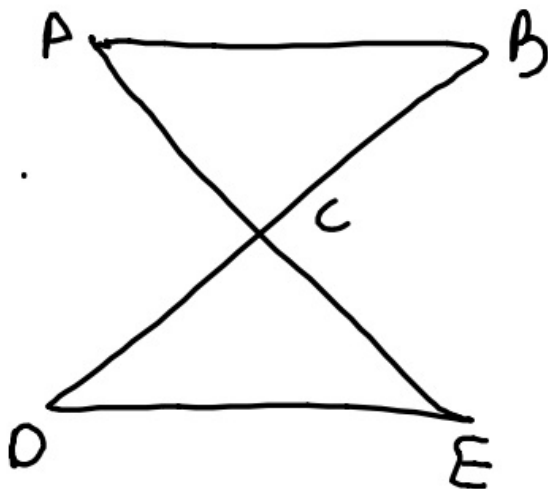
C is midpoint of \overline{BD} . What must be true to prove $\triangle ABC \cong \triangle EDC$ by ASA? $\angle B = \angle D$

⑧



$\angle A = \angle E$ so what more must
be known to prove $\triangle ABC \cong \triangle EDC$
by ASA? $AC = CE$
AAS? $CD = CB$ OR $AB = DE$

⑦



C is midpoint of \overline{BD} . What must
be true to prove $\triangle ABC \cong \triangle EDC$ by
ASA?