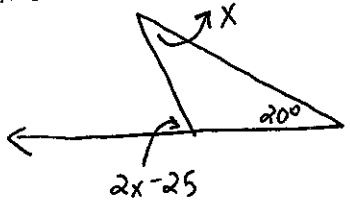
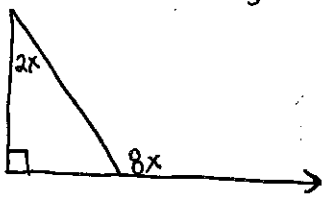
Geometry Unit 4 Review

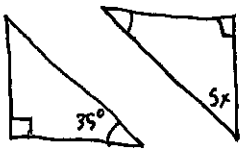
① Find x + all angles



② Find x + all angles

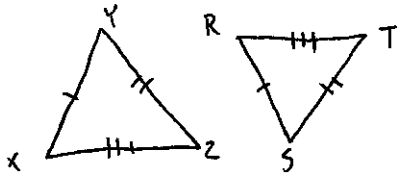


③a Find x

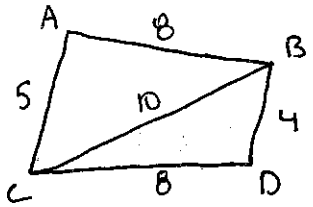


④ Tell If True or False + why

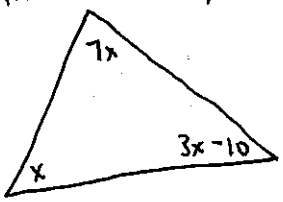
$\triangle XYZ \cong \triangle RST$



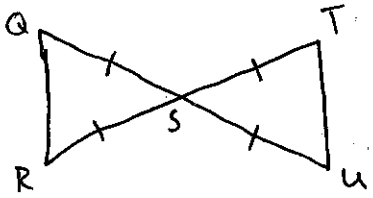
$\triangle ABC \cong \triangle DCB$

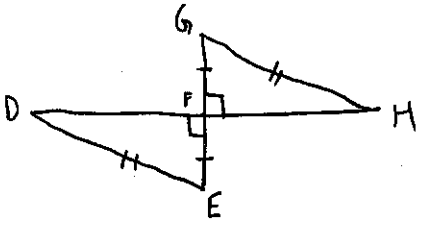


③b Find x + angles



⑤ Give $\cong$ $\triangle$'s + why.





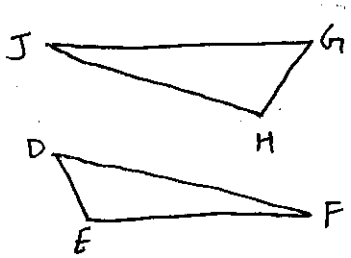
⑥ Say what is missing:

For AAS: $\overline{DE} \cong \overline{GH}$, $\angle D \cong \angle G$, _____

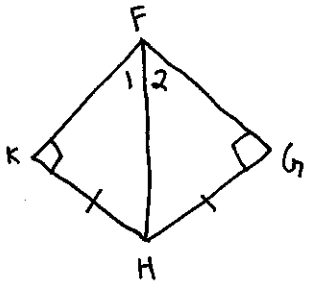
For ASA: $\overline{DF} \cong \overline{GJ}$, $\angle F \cong \angle J$, _____

For SAS: $\overline{JH} \cong \overline{FE}$, $\overline{HG} \cong \overline{ED}$, _____

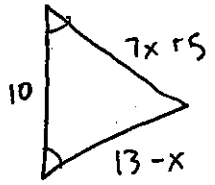
For SSS: $\overline{DE} \cong \overline{GH}$, $\overline{EF} \cong \overline{HJ}$, _____



⑦ Prove $\angle 1 \cong \angle 2$

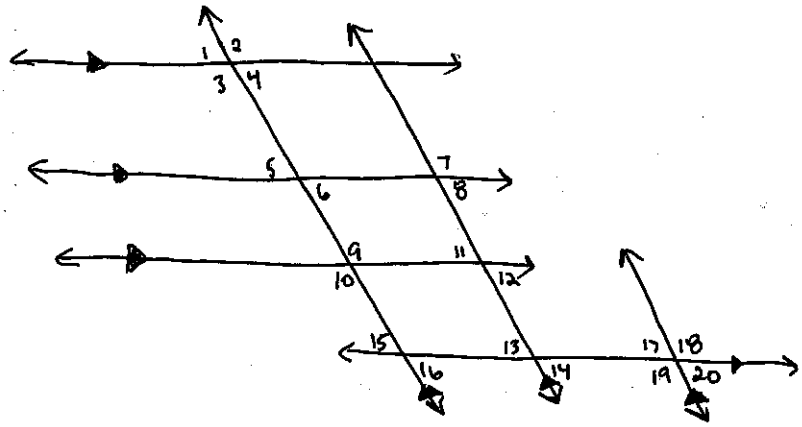


⑧ Find the value of x

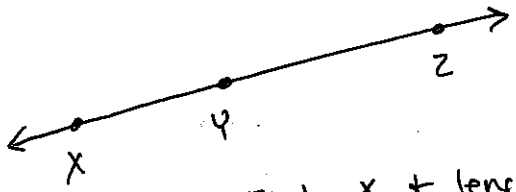


⑨ Find the distance + midpoint : $(-2,5)$ + $(-3,-2)$

⑩ show : $\angle 1 \cong \angle 17$



⑪



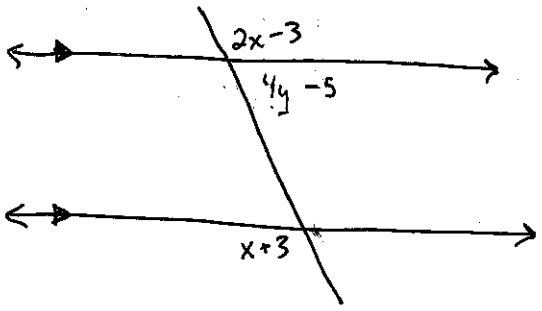
Find x + lengths

$\overline{XY} = 5$

$\overline{YZ} = x + 3$

$XZ = 2x - 10$

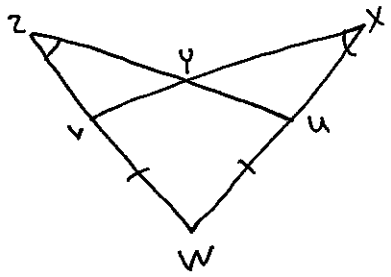
⑫ Find x + y



Practice Proofs.

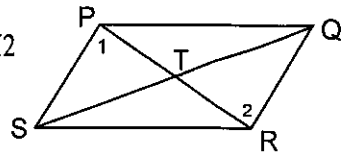
Given:

Prove: $\Delta XWV \cong \Delta ZWU$



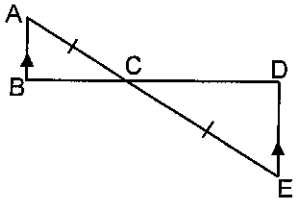
Given: T is a midpoint of $\overline{PR}$ and $\overline{SQ}$

Prove: $\angle 1 \cong \angle 2$



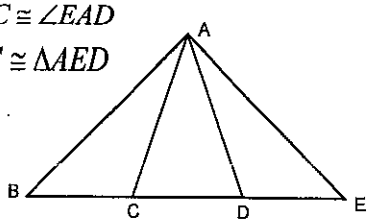
Given:

Prove: $\overline{BC} \cong \overline{DC}$



Given: $\angle ACD \cong \angle ADC$, $\angle BAC \cong \angle EAD$

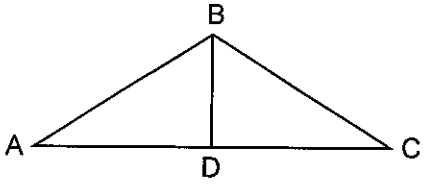
Prove: $\Delta ABC \cong \Delta AED$



Given: ΔABC is isosceles with base $\overline{AC}$

Prove: $\overline{BD}$ bisects $\angle B$

$\angle BDA \cong \angle BDC$



Given: $\overline{BD} \perp \overline{AC}$, D is a midpoint of $\overline{AC}$

Prove: $\overline{AB} \cong \overline{CB}$