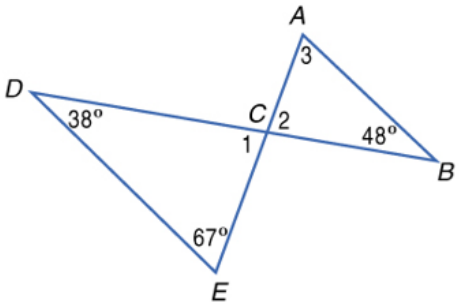
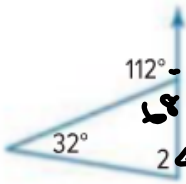
Review Section 4.1-4.3

Find the measure of ∠3.



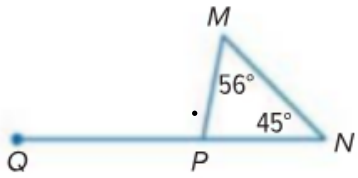
Find each measure.

3. $m\angle 2$



180
− 112
68
32
100

4. $m\angle MPQ$



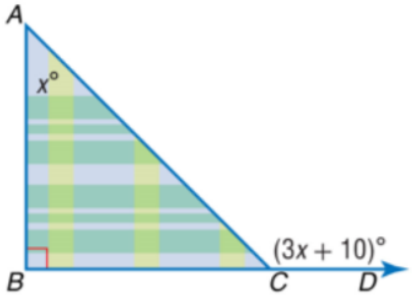
$m\angle MPQ = 56 + 45 = 101$

Find the value of x

$3x+10=90+x$

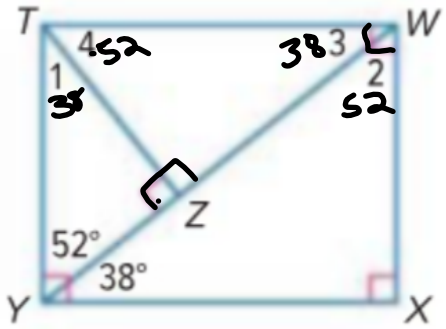
$2x=8$

$x=40$



Find the missing angle measures

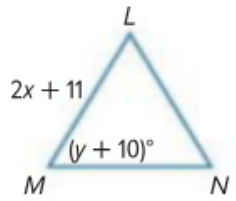
90
−52
38

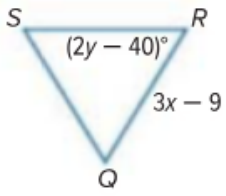


In the figure, $\triangle LMN \cong \triangle QRS$.

4. Find x.

5. Find y.





$2x+11 = 3x-9$

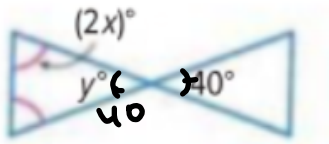
$20 = x$

$y+10 = 2y-40$

$50 = y$

Find x and y.

18.



$y = 40$

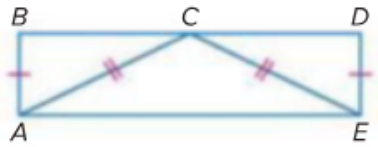
$\frac{140}{2} = 70 = 2x$

$35 = x$

two-column proof

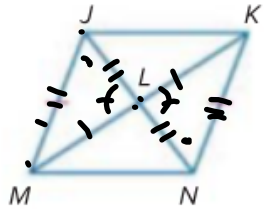
Given: $\overline{AB} \cong \overline{ED}$, $\overline{CA} \cong \overline{CE}$; $\overline{AC}$ bisects $\overline{BD}$.

Prove: $\triangle ABC \cong \triangle EDC$

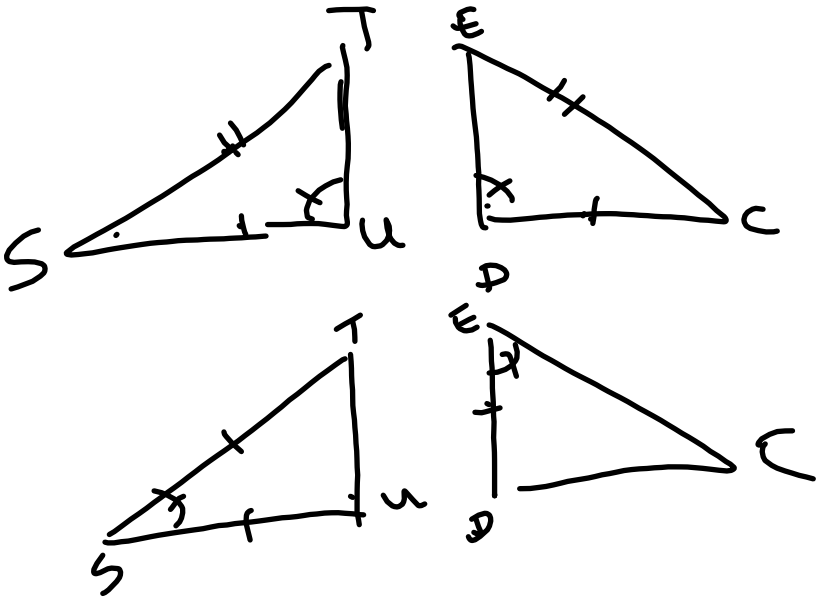


Given: $\overline{JM} \cong \overline{NK}$; L is the midpoint of $\overline{JN}$ and $\overline{KM}$.

Prove: $\angle MJL \cong \angle KNL$



1. 1. Given
2. $\overline{ML} \cong \overline{LK}$, $\overline{JL} \cong \overline{LN}$ 2. Def of midpt.
3. $\angle JLM \cong \angle KLN$ 3. Vert $\angle$ Thm
4. $\triangle MJL \cong \triangle KNL$ 4. SAS Post
5. $\angle MJL \cong \angle KNL$ 5. CPCTC


T
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$\overline{ML} \cong \overline{ZX}$ $\overline{LN} \cong \overline{XY}$ $\angle L \cong \angle X$