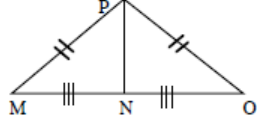
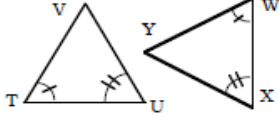
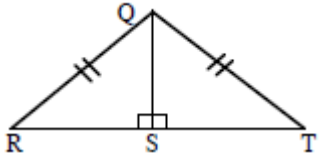
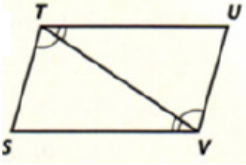
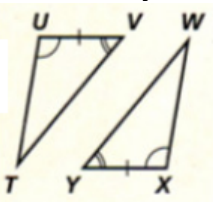
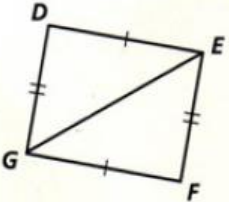
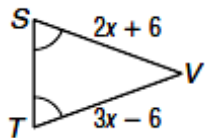
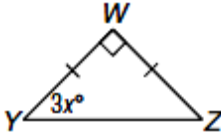

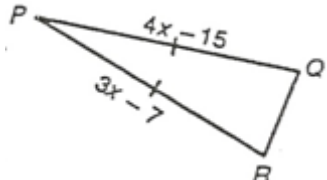
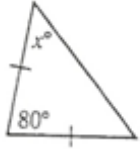
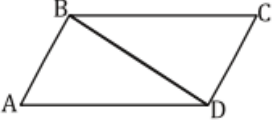
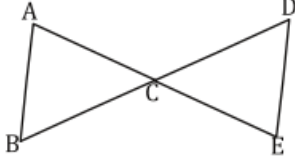
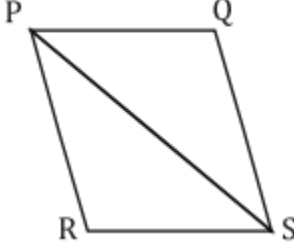
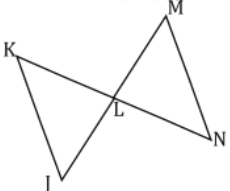


Determine if the triangles are congruent. If yes, make a congruency statement and give the reason why they are congruent. If they are not congruent, write "not congruent".

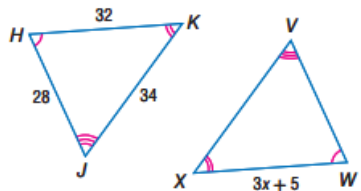
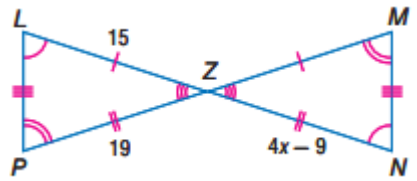
1)	$\triangle MNP \cong \triangle$ _____ by _____ 	2)	$\triangle TUV \cong \triangle$ _____ by _____ 
3)	$\triangle QRS \cong \triangle$ _____ by _____ 	4)	$\triangle TVS \cong \triangle$ _____ by _____ 
5)	$\triangle TUV \cong \triangle$ _____ by _____ 	6)	$\triangle DEG \cong \triangle$ _____ by _____ 

7)	Solve for x: 	8)	Solve for x: 
9)	Solve for x: 	10)	Solve for x: 
11)	Solve for x: 	12)	$\triangle ABC$ is an isosceles triangle with vertex angle B, $AB = 5x - 28$, $AC = x + 5$, and $BC = 2x + 11$. Find the length of the base.

Write formal proofs:

<p>13)</p>	<p>Given: $\overline{AB} \cong \overline{CD}; \overline{AD} \cong \overline{CB}$</p>  <p>Prove: $\angle A \cong \angle C$</p>	<p>14)</p> <p>Given: \overline{AE} bisects $\overline{BD}; \angle B \cong \angle D$ Prove: \overline{BD} bisects \overline{AE}</p> 
<p>15)</p>	<p>Given: $\overline{PQ} \parallel \overline{RS}; \overline{PR} \parallel \overline{QS}$ Prove: $\angle Q \cong \angle R$</p> 	<p>16)</p> <p>Given: $\overline{JK} \parallel \overline{MN}; \overline{JK} \cong \overline{MN}$ Prove: L is the midpoint of \overline{KN}.</p> 

Find the value of x for each pair of congruent triangles:

<p>17)</p>		<p>18)</p> 
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19) If $\triangle RST \cong \triangle UVW$, complete each pair of congruent parts.

$\angle R \cong$ _____

_____ $\cong \angle W$

$\angle T \cong$ _____

$\overline{RT} \cong$ _____

_____ $\cong \overline{UW}$

_____ $\cong \overline{WV}$

20) $\triangle JKL \cong \triangle DEF, m\angle J = 36, m\angle E = 64, m\angle F = 3x + 52$, Draw and label the congruent triangles and find the value of x.