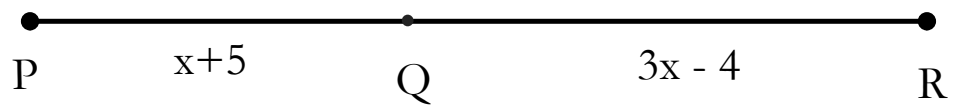


	Answers	
$x = 8$	$m\angle 1 + m\angle 2 = 90^\circ$	vertical angles
Symmetric POE	Definition of complementary angles	27
Distribution Property	Substitution POE	Law of Detachment
Reflexive POC		Law of Syllogism
$x = 6$	$m\angle 2 = m\angle 3$	Contrapositive
$AB \cong CD$	Definition of \cong \angle 's	$\sim q \Rightarrow \sim p$
62°	$x = 9$	Inverse,
152°	114	$\sim p \Rightarrow \sim q$
Transitive POC	linear pairs	Addition POE

Solve for the variable. $PR = 33$



Name the property

If $x = 10$, then $10 = x$.

Name the property.

$$8(x - 3) = 8x - 24$$

Name the property

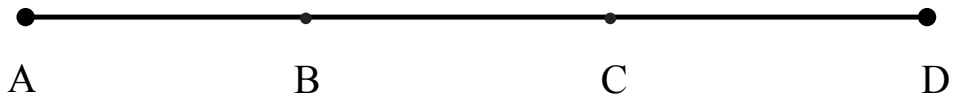
$$A \cong A$$

$\angle T$ and $\angle S$ form a linear pair. If $m\angle T = 17x + 12$
and $m\angle S = 7x + 24$. Find x .

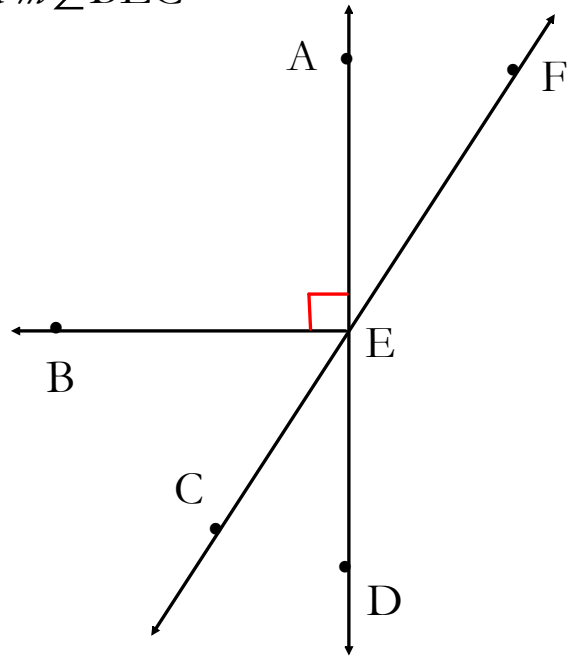
Using the **transitive property of congruence**,
finish the statement

$$\text{If } \overline{AB} \cong \overline{BC} \text{ and } \overline{BC} \cong \overline{CD}$$

Then



Find $m\angle BEC$



Given:
 $m\angle AEF = 28^\circ$

Find $m\angle FED$

Name the property.

If $\angle 3 \cong \angle 4$ and $\angle 4 \cong \angle 1$, then $\angle 3 \cong \angle 1$

Given: $\angle 1$ and $\angle 2$ are complements
 $\angle 1$ and $\angle 3$ are complements

Prove: $\angle 2 \cong \angle 3$

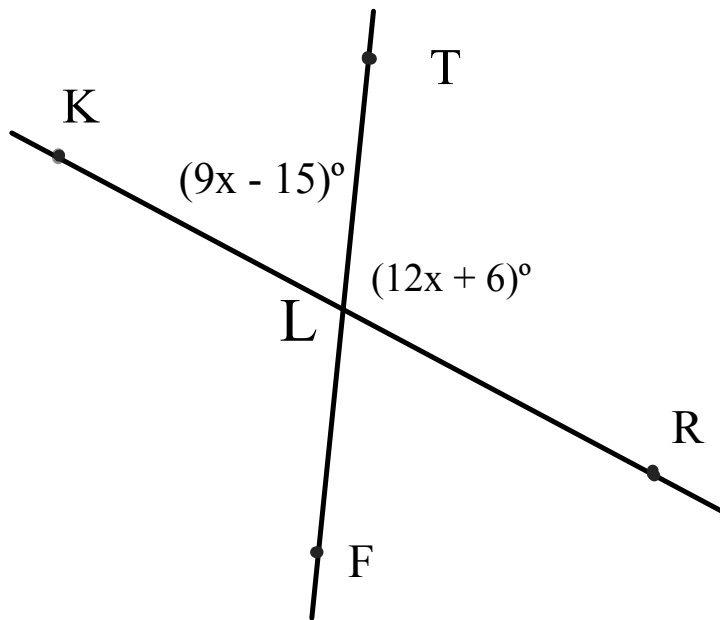
Statements

1. $\angle 1$ and $\angle 2$ are complements
2. $\angle 1$ and $\angle 3$ are complements
3. _____
4. $m\angle 1 + m\angle 3 = 90^\circ$
5. $m\angle 1 + m\angle 2 = m\angle 1 + m\angle 3$
6. _____
7. $\angle 2 \cong \angle 3$

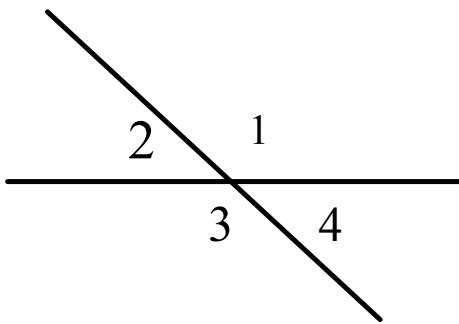
Reasons

1. Given
2. Given
3. Definition of complementary angles
4. _____
5. _____
6. Subtraction POE
7. _____

Solve for x



Find $m \angle KLF$



What kind of angles are $\angle 3$ and $\angle 4$?

What kind of angles are $\angle 2$ and $\angle 4$?

Find the next number in the sequence:
2, 5, 9, 14, 20,....

State whether it is Law of Detachment or Law of Syllogism.

If $m\angle B > 90^\circ$, then $\angle A$ is acute.

$m\angle B = 144$, so $\angle A$ is acute.

State whether it is the Law of Detachment or the Law of Syllogism

If Mark cuts Phil's grass for the summer, then Mark will make \$500.
If Mark makes \$500, then he will buy a Playstation 3.

If Mark cuts Phil's grass for the summer, then he will buy a
Playstation 3.

Let p be "the sky is blue" and let q be "it is a clear day."

State which kind of conditional statement follows.

If it is not a clear day, then the sky is not blue.

If the sky is not blue, then it is not a clear day.

State the property:

$$\text{If } a = b, \text{ then } a + 11 = b + 11$$