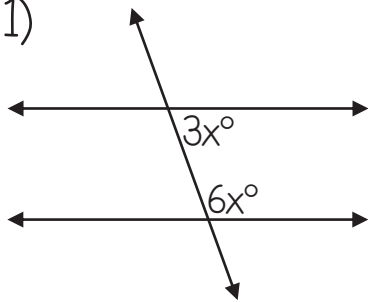


Angle Pairs Created by Parallel Lines Cut by a Transversal

For each set of angles name the angle pair, write the equation, solve the equation for x , and plug in x to find the missing angle measurements

1)



Type of angle pair _____

These angles are _____

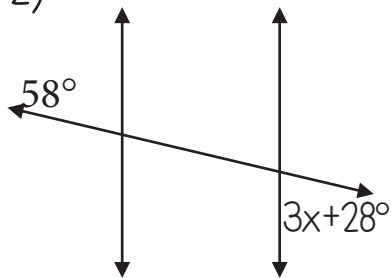
Equation _____

$x =$ _____

Angle Measurements = _____

Show your work

2)



Type of angle pair _____

These angles are _____

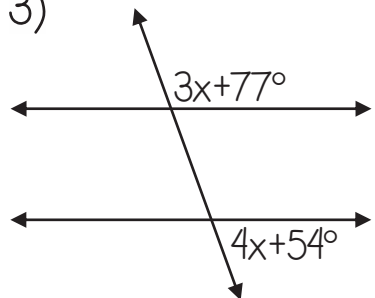
Equation _____

$x =$ _____

Angle Measurements = _____

Show your work

3)



Type of angle pair _____

These angles are _____

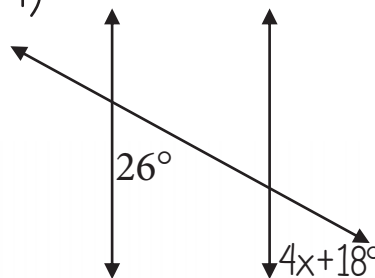
Equation _____

$x =$ _____

Angle Measurements = _____

Show your work

4)



Type of angle pair _____

These angles are _____

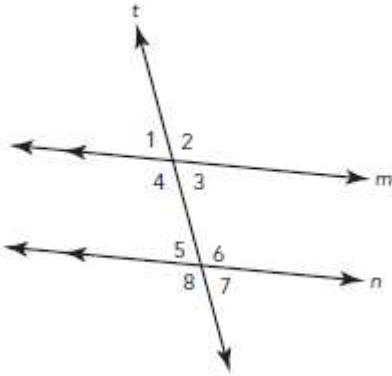
Equation _____

$x =$ _____

Angle Measurements = _____

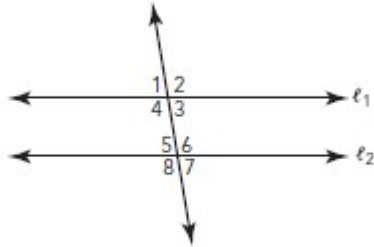
Show your work

4 In the diagram, transversal t intersects parallel lines m and n . Suppose that the measure of $\angle 4$ is 106° . **Classify** the given angle pair. Then determine **each measure**.

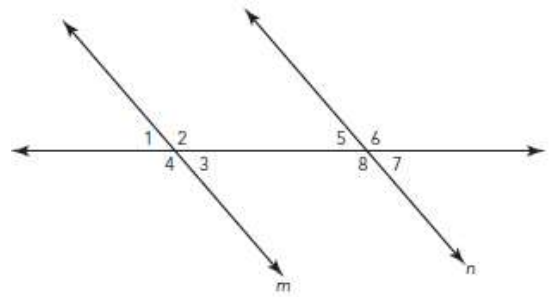


- a. $\angle 4$ and $\angle 1$ _____ $m\angle 1 =$ _____
 b. $\angle 4$ and $\angle 2$ _____ $m\angle 2 =$ _____
 c. $\angle 4$ and $\angle 3$ _____ $m\angle 3 =$ _____
 d. $\angle 4$ and $\angle 8$ _____ $m\angle 8 =$ _____
 e. $\angle 4$ and $\angle 5$ _____ $m\angle 5 =$ _____
 f. $\angle 5$ and $\angle 7$ _____ $m\angle 7 =$ _____

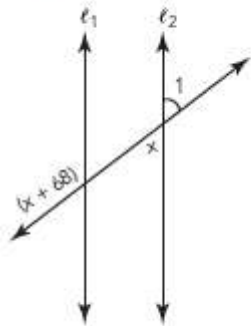
5 In the figure shown, $\ell_1 \parallel \ell_2$. If $m\angle 8 = 49^\circ$, determine the measures of the other seven angles in the figure.



6 In the figure shown, $m \parallel n$. If $m\angle 6 = 17x + 16$ and $m\angle 3 = 28^\circ$, determine the measures of the other seven angles in the figure.

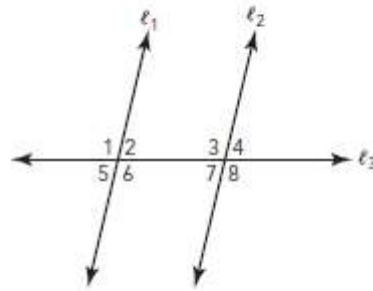


7 In the figure shown, $\ell_1 \parallel \ell_2$.



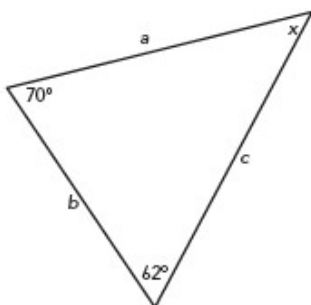
What is $m\angle 1$?

8 In the figure shown, lines 1 and 2 are parallel.



The sum of the measures of angles 4 and 5 is 150° . What is the measure of angle 1?

9 Determine the measure of the missing angle.



10 Determine the measure of the missing angles.

