## TOPIC 3-2: MORE PARALLEL LINES

We learned several relationships that are formed when parallel lines are cut by a transversal.

Which types of angle pairs were congruent?

1. $\qquad$
2. $\qquad$
3. $\qquad$
4. $\qquad$
EXAMPLE 1
Using the figure below, identify each angle pair, and tell whether they are congruent or supplementary.
a) $\angle 1 \& \angle 5$

Type:
Congruent or Supplementary?
b) $\angle 2 \& \angle 3$

Type:
Congruent or Supplementary?


## EXAMPLE 2

In the figure below, $\varsigma \|_{m}$. Find the measure of each angle.
a) $m \angle 3=115^{\circ}$, find $m \angle 5$.
b) $m \angle 1=130^{\circ}$, find $m \angle 7$.
c) $\mathrm{m} \angle 8=47^{\circ}$, find $\mathrm{m} \angle 3$.


## Example 3 Find the value of x .



## Example 4 Find the value of $x$.



## In class practice answers:

| \#1. | \#2. |
| :--- | :--- |
|  |  |
|  |  |
|  |  |
| \#3. |  |
|  | \#4. |
|  |  |
| \#5. |  |

