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?

Which types of angle pairs were supplementary?

- 1._____
- 1._____
- 2.
- 2._____
- 3
- 4._____

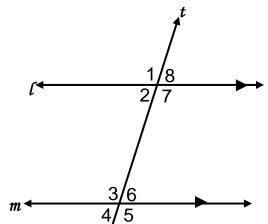
EXAMPLE 1

Using the figure below, identify each angle pair, and tell whether they are congruent or supplementary.

a) ∠1 & ∠5

Type:

Congruent or Supplementary?



b) ∠2 & ∠3

Type:

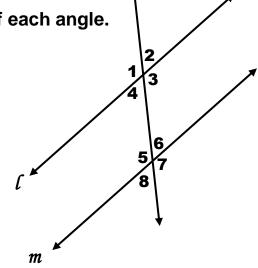
Congruent or Supplementary?



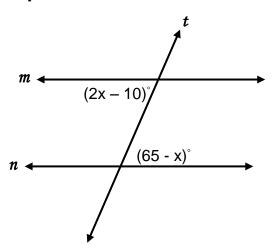
In the figure below, $\ell \parallel m$. Find the measure of each angle.



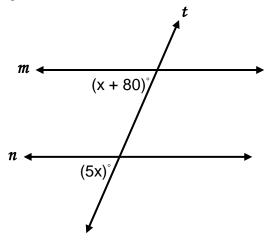
- b) $m \angle 1 = 130^{\circ}$, find $m \angle 7$.
- c) $m\angle 8 = 47^{\circ}$, find $m\angle 3$.



Example 3 Find the value of x.



Example 4 Find the value of x.





In class practice answers:

#1.	#2.
#3.	#4.
#5.	#6.