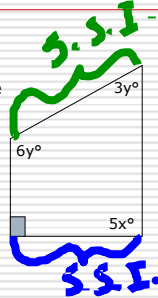


## Vocabulary Sheet for Lesson 3-2:

### Example 2

□ Solve

Given that the two vertical lines are parallel find the value of  $x$  and  $y$



Diagrams/ Notes

$$5x + 90 = 180$$

$$5x = 90$$

$$x = 18$$

$$6y + 3y = 180$$

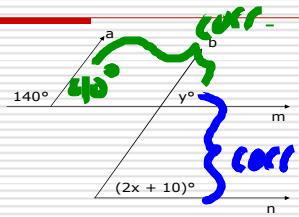
$$9y = 180$$

$$y = 20$$

### Example 3

□ Solve

Given that  $a \parallel b$  and  $m \parallel n$ , solve for  $x$  and  $y$



$$y = 40^\circ$$

$$2x + 10 = 40$$

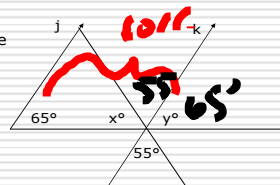
$$2x = 30$$

$$x = 15$$

### Example 4

□ Solve

Given that  $j \parallel k$ , solve for  $x$  and  $y$



$$y = 65^\circ$$

$$x + 55 + 65 = 180$$

$$x + 120 = 180$$

$$x = 60^\circ$$