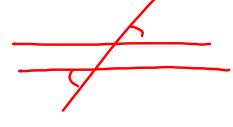
## 11-3 Parallel lines and **Transversals**

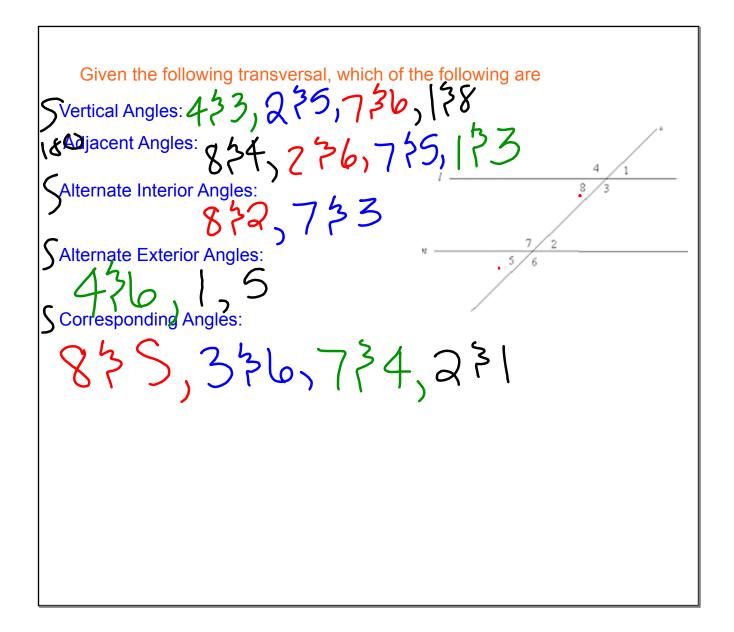
## Objectives:

- I can identify types of angles on two parallel lines cut by a transversal.
- I can find missing angles of two parallel lines cut by a transversal.

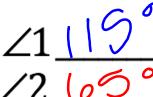
· Same · add +0 180°

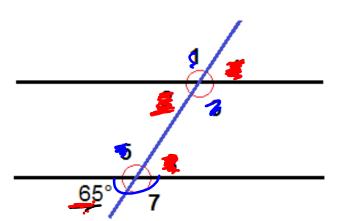


Vocabulary	
S Vertical Angle: Opposite sides of "X" (B3C)	
「&OAdjacent Angle: Next to each other (人なく)	
Salternate Interior:  Opposite side, inside parallel  Alternate Exterior:  Opposite side, I whide parallel  Scorresponding:  Same side, 1 inside, 1 ourside  Parallel lines:  I'MES + MOH NEUER TOUCH  Transversal:  I'ME CUTS + MROUGH PARALLEL  I'ME CUTS + MROUGH PARALLEL  Transversal:  I'ME CUTS + MROUGH PARALLEL  TO D  A  B  C  C  D  C	

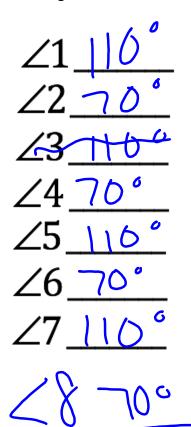


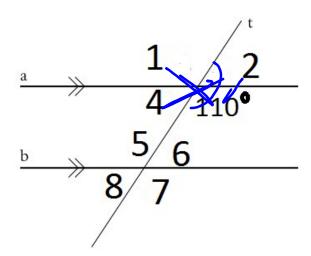
Given the measurement of one angle, find the measure of ALL other angles.





Given the measurement of one angle, find the measure of ALL other angles.





State the angle relationship and solve for x. Then find all other angle measures

a.

alternate interior
$$5x - 94 = 3x + 16$$

$$-3x - 73x$$

$$2x - 94 = 16$$

$$+94 + 194$$

$$= x = 70$$

$$x = 35$$

b. 
$$\frac{|4(8.75)|^{4}k}{45^{\circ}|35^{\circ}|}$$

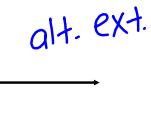
$$\frac{|35|^{4x+10}|45|^{6}}{45^{\circ}|35^{\circ}|}$$

$$\frac{|35|^{6x-25}}{45^{\circ}|35^{\circ}|}$$

State the angle relationship and solve for x. Then find all other angle measures

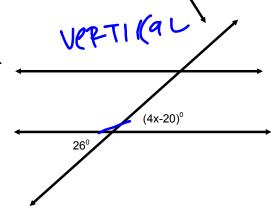
a.

 $(5x-10)^{\circ}$ 



$$5x-10 = 7.5$$
 $5x = 8.5$ 
 $5 = 17$ 

b.



$$4x - 20 = 26$$
  
 $4x - 20 + 20$   
 $4x = 46$   
 $x = 115$