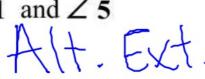
Notes 1-3 Parallel Lines & Transversals

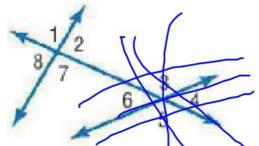
Unit 1

Vocabulary Words	Picture
Transversal:	
intersects 2 lines	
Vertical Angles:	7
41324 1632	t.
Consecutive Interior Angles:	~
L3325 _ 426	3 4 9
Alternate Interior Angles:	5 6
13316 14315	7 8
Alternate Exterior Angles:	
1318 12317	↓
Corresponding Angles:	14
11365 12 LX	12 ml

Ex. 1: Refer to the figure below. Classify the relationship between each pair of angles as *vertical*, *alternate interior*, *alternate exterior*, *corresponding*, or *consecutive interior* angles.

a) $\angle 1$ and $\angle 5$





b) $\angle 6$ and $\angle 7$



c) $\angle 2$ and $\angle 4$

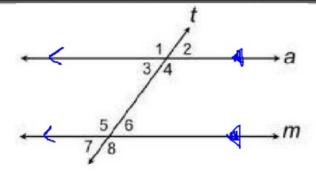


- d) $\angle 2$ and $\angle 8$ Vertical
- f) Z 5 and Z 7 CON Ming

Notes 1-3 **Parallel Lines & Transversals**

Unit 1

Parallel Lines



Congruent Angles	Supplementary Angles		
	+180		
Vertical	Con. interior		
AH-INT.			
ALT. EXT.			
Corresponding			

Are any of these true for skew lines?

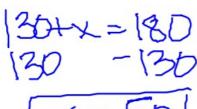
JERHOUL ANGLES

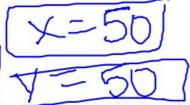
ONE always

Notes 1-3 Parallel Lines & Transversals

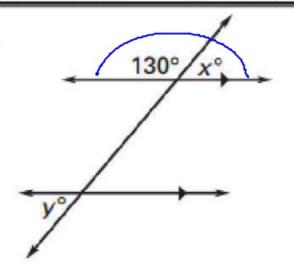
Unit 1

Example 2: Solve for x and y.





Example 3: Solve for x.

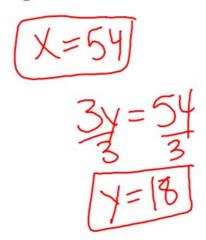


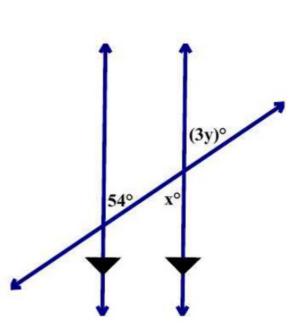
 $\frac{1}{3}(9x-27)^{\circ}$

150°

 $\frac{1}{3}(9x-27) = 150$ 3x-9=150 3x=139 x=5



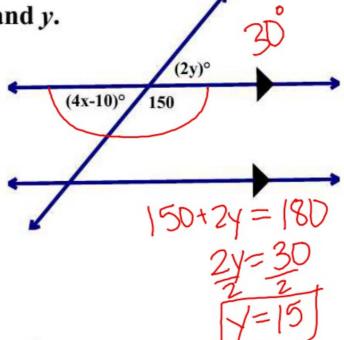




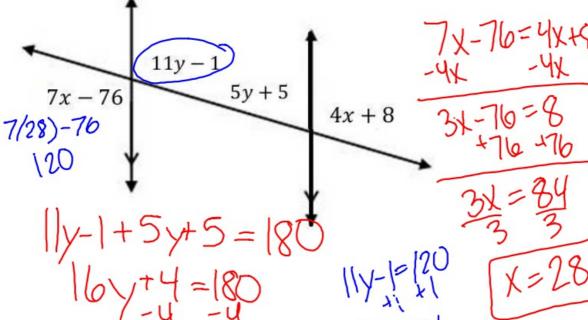
Notes 1-3 Parallel Lines & Transversals

Unit 1

Example 5: Solve for x and y.



Example 6: Solve for x and y.



$$\frac{11y-1=120}{11y=121}$$

$$\frac{11y-1=121}{11y=121}$$

$$\frac{11y-1=11}{11y=121}$$