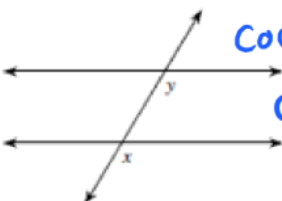



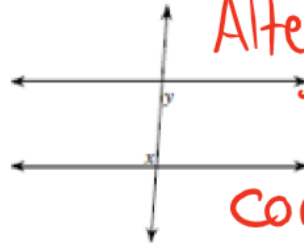
Parallel Line Properties

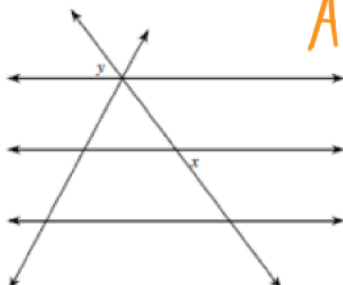
Name \_\_\_\_\_

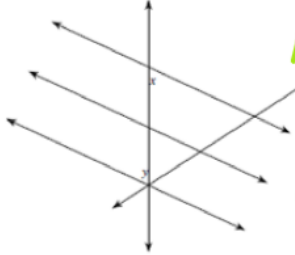
Identify each pair of angles as corresponding, alternate interior, alternate exterior, or consecutive interior.

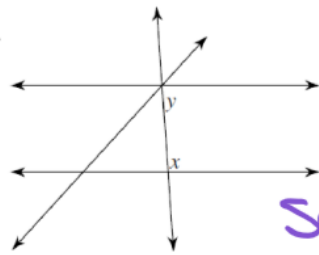
1.  corresponding congruent

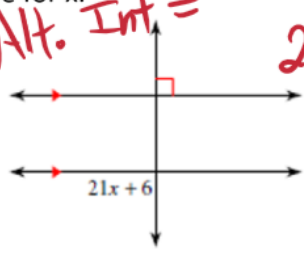
2.  Same side interior Supplementary

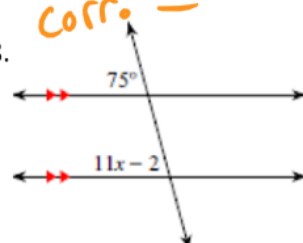
3.  Alternate Interior Congruent

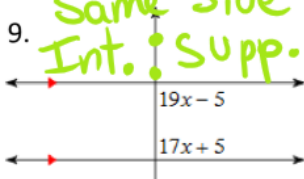
4.  Alternate Exterior congruent

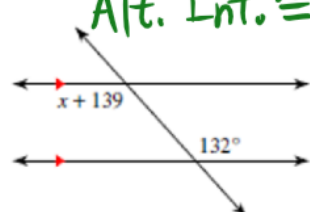
5.  Alternate Interior Congruent

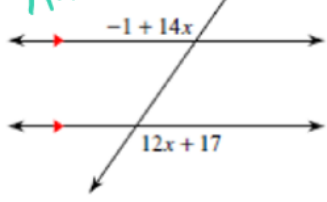
6.  Same side Interior Supplementary

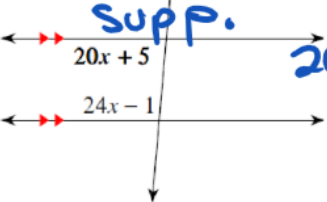
Solve for x.  
7.  Alt. Int.  $\cong$   
 $21x + 6 = 90$   
 $21x = 84$   
 $x = 4$

8.  corr.  $\cong$   
 $11x - 2 = 75$   
 $11x = 77$   
 $x = 7$

Solve for x.  
9.  Same side Int.  $\supp.$   
 $19x - 5 + 17x + 5 = 180$   
 $36x = 180$   
 $x = 5$

10.  Alt. Int.  $\cong$   
 $x + 139 = 132$   
 $x = -7$

11.  Alt. Ext.  $\cong$   
 $-1 + 14x = 12x + 17$   
 $-1 + 2x = 17$   
 $2x = 18$   
 $x = 9$

12.  Same side Int.  $\supp.$   
 $20x + 5 + 24x - 1 = 180$   
 $44x + 4 = 180$   
 $44x = 176$   
 $x = 4$