
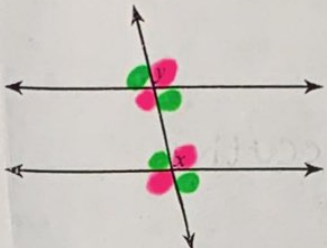
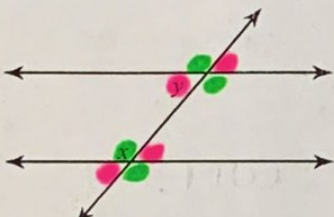


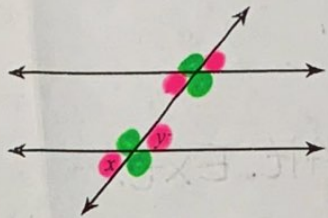
1.4 - Practice

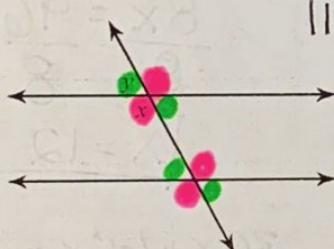
(1) Identify each pair of angles as corresponding, alternate interior, alternate exterior, consecutive interior, vertical, or linear pair. (2) Set up the equation for the pair of angles.

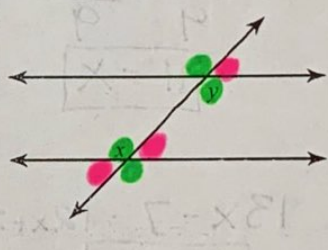
1)  Alt. ext.
 $x = y$
 $m\angle x = m\angle y$

2)  Corresponding
 $m\angle x = m\angle y$

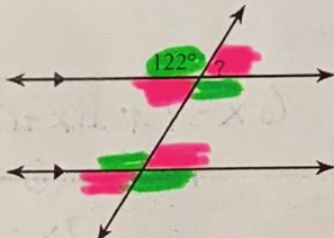
3)  consecutive
 $x + y = 180$

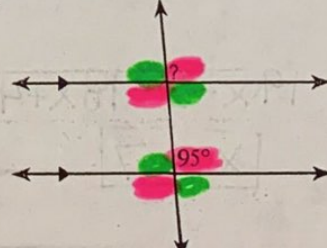
4)  vertical angles
 $x = y$

5)  linear pair
 $x + y = 180$

6)  Alt. int.
 $x = y$

Find the measure of each angle indicated.

7)  $122 + x = 180$
 $-122 \quad -122$
 $x = 58^\circ$

8)  $95 = x$

9) Alt. ext. $x = 106^\circ$

10) vertical $x = 83^\circ$

11) consecutive $x + 50 = 180$
 $x = 130$

12) Alt. int. $x = 59^\circ$

Solve for x.

13) Alt. Ext. $115 = 9x + 16$
 $-16 \quad -16$
 $99 = 9x$
 $\frac{99}{9} = \frac{9x}{9}$
 $\boxed{11 = x}$

14) corr. $8x + 9 = 105$
 $-9 \quad -9$
 $8x = 96$
 $\frac{8x}{8} = \frac{96}{8}$
 $\boxed{x = 12}$

15) $13x - 7 = 12x + 2$
 $\boxed{x = 9}$

16) $30x + 60x = 180$
 $90x = 180$
 $x = 2$

17) $19x - 3 = 18x + 4$
 $\boxed{x = 7}$

18) $6x - 7 + 11x + 17 = 180$
 $17x + 10 = 180$
 $17x = 170$
 $\boxed{x = 10}$