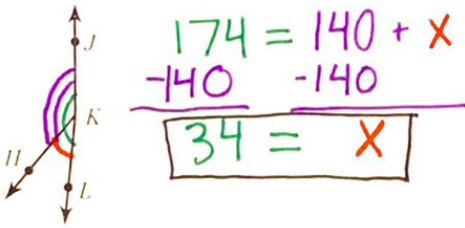
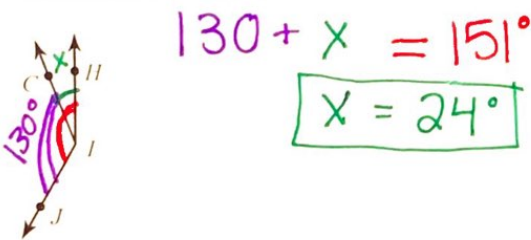


Unit 1 Review (1.1 - 1.5)

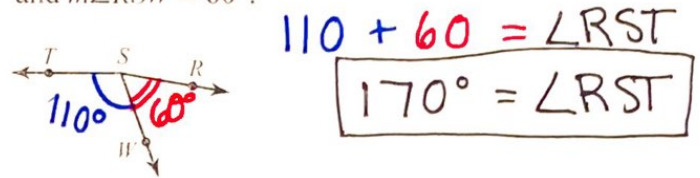
- 1) Find  $m\angle LKH$  if  $m\angle LKJ = 174^\circ$  and  $m\angle HKJ = 140^\circ$ .



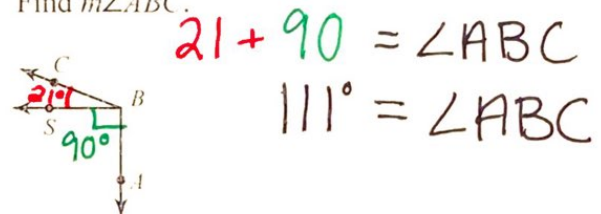
- 3) Find  $m\angle CIH$  if  $m\angle JIH = 151^\circ$  and  $m\angle JIC = 130^\circ$ .



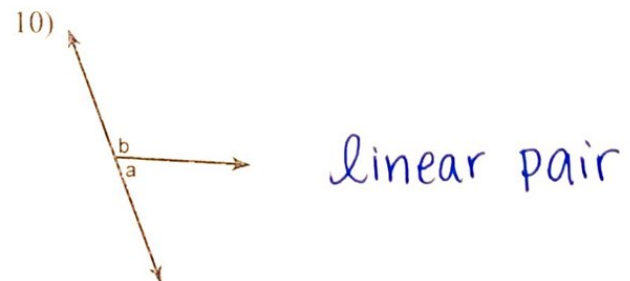
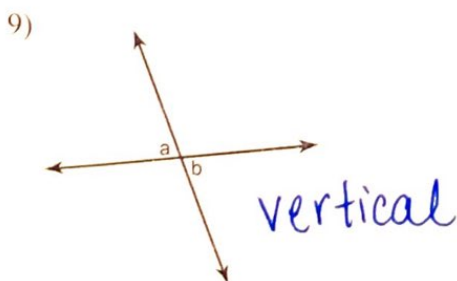
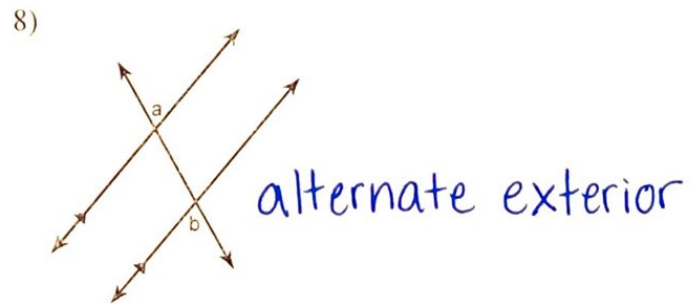
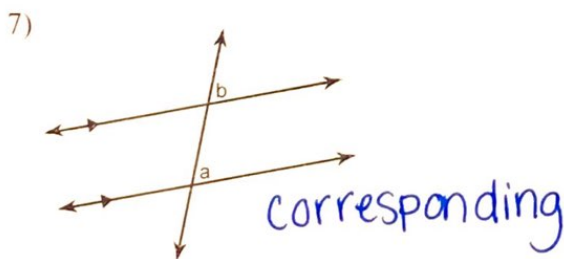
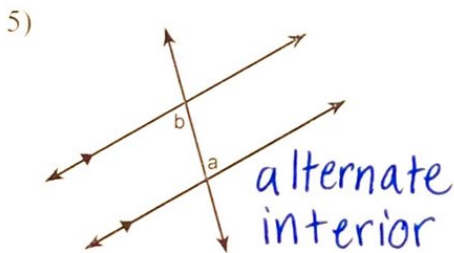
- 2) Find  $m\angle RST$  if  $m\angle WST = 110^\circ$  and  $m\angle RSW = 60^\circ$ .



- 4)  $m\angle SBC = 21^\circ$  and  $m\angle ABS = 90^\circ$ . Find  $m\angle ABC$ .

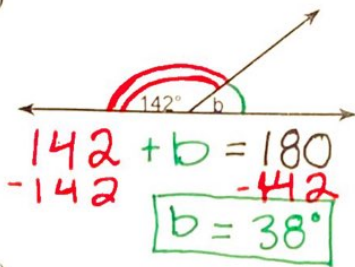


Name the relationship: complementary, linear pair, vertical, alternate interior, corresponding, or alternate exterior.



Find the measure of angle b.

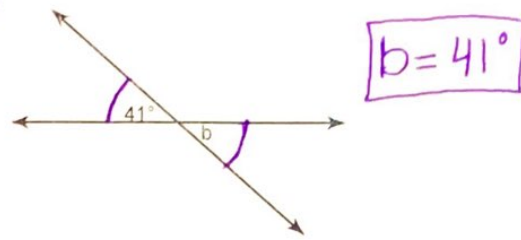
11)



$$142 + b = 180$$

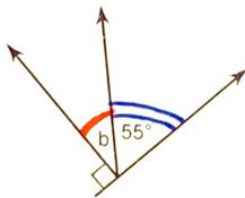
$$\begin{array}{r} 142 + b = 180 \\ -142 \quad -142 \\ \hline b = 38^\circ \end{array}$$

12)



$$b = 41^\circ$$

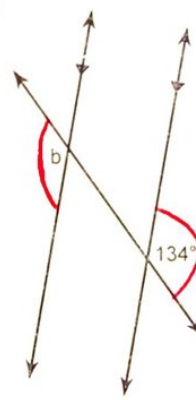
13)



$$b + 55 = 90$$

$$\begin{array}{r} b + 55 = 90 \\ -55 \quad -55 \\ \hline b = 35^\circ \end{array}$$

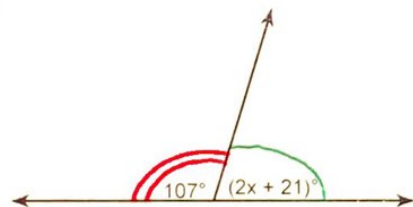
14)



$$b = 134^\circ$$

Find the value of x.

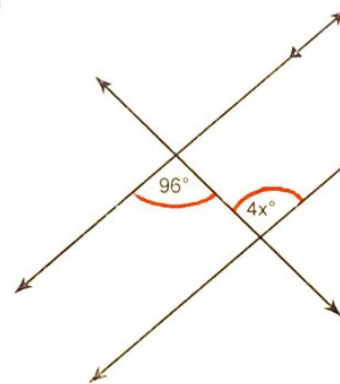
15)



$$107 + 2x + 21 = 180$$

$$\begin{array}{r} 107 + 2x + 21 = 180 \\ 128 + 2x = 180 \\ -128 \quad -128 \\ \hline 2x = 52 \\ \frac{2x}{2} = \frac{52}{2} \\ x = 26 \end{array}$$

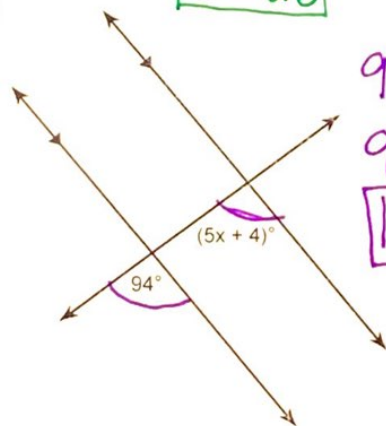
16)



$$\frac{4x = 96}{4 \quad 4}$$

$$x = 24$$

17)

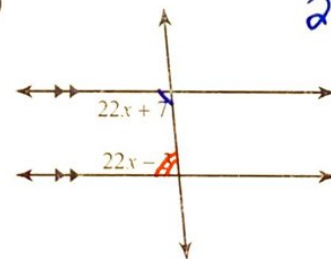


$$94 = 5x + 4$$

$$90 = 5x$$

$$18 = x$$

18)



$$22x + 7 + 22x - 3 = 180$$

$$44x = 176$$

$$x = 4$$

19) One of two supplementary angles is  $68^\circ$  greater than its supplement. Find the measure of both angles.

$$\angle 1 = x$$

$$\angle 2 = x + 68$$

$$\begin{array}{r} x + x + 68 = 180 \\ 2x + 68 = 180 \\ 2x = 112 \\ x = 56 \end{array}$$

$$\begin{array}{l} \angle 1 = 56^\circ \\ \angle 2 = 124^\circ \end{array}$$

20)  $\angle 1$  and  $\angle 2$  are complementary angles. Solve for x and the measure of both angles.

$$2x - 16 + 5x + 1 = 90$$

$$7x - 15 = 90$$

$$7x = 105$$

$$x = 15$$

$$\begin{array}{l} \angle 1 = 14^\circ \\ \angle 2 = 76^\circ \end{array}$$