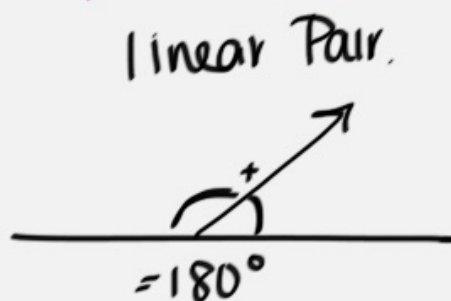
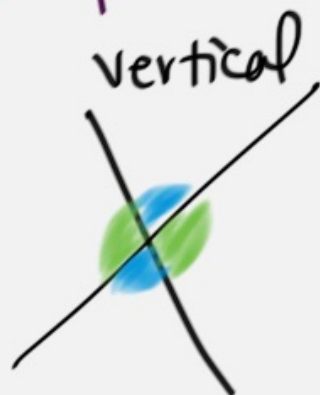


## Math 2

- Get toolkit + gluesticks
- take out parent sheet / honors contract





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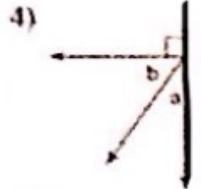
**Angle Pair Relationships** Date \_\_\_\_\_ Period \_\_\_\_\_

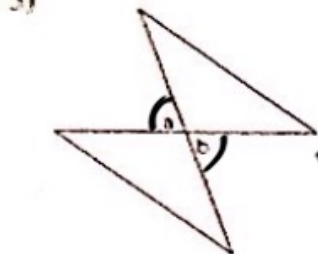
Name the relationship: complementary, linear pair, vertical, or adjacent.


1)  adjacent linear pair


2)  adjacent

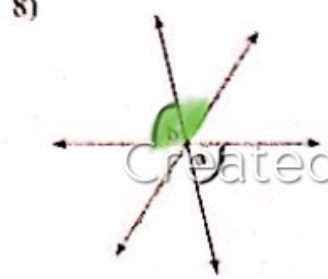
3)  adj.


4)  adj. Complementary.

5)  vertical

6)  adj.

7)  linear pair adj.

8)  vertical

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Find the measure of angle b.

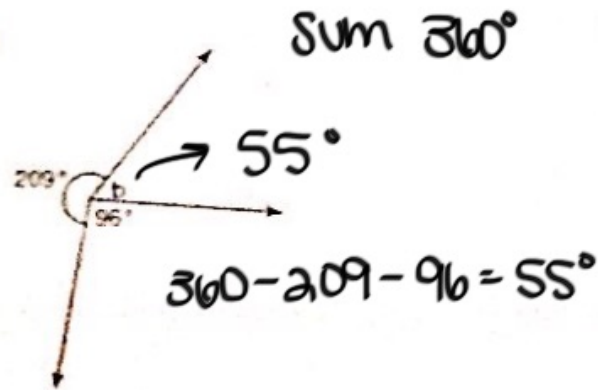
9)



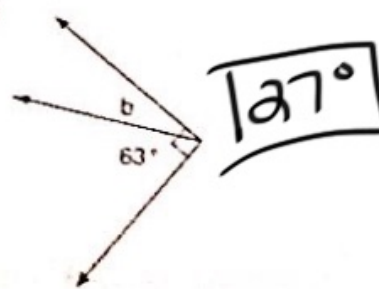
10)



11)

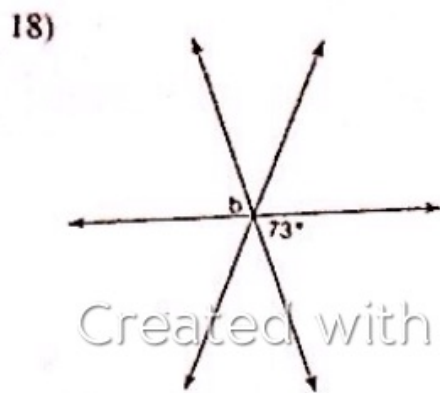
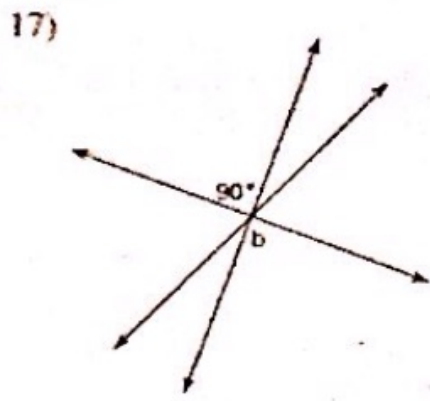
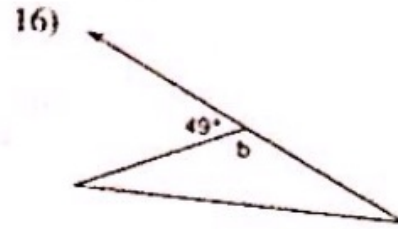
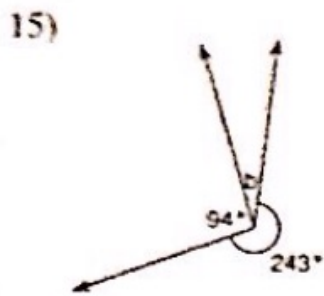
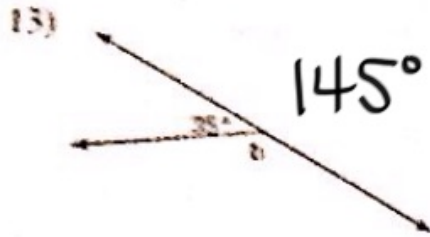


12)



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Find the value of x.

19) ex

$$3x + 18 + 93 = 180$$

$$3x + 111 = 180$$

$$\begin{array}{r} 3x + 111 = 180 \\ -111 \quad -111 \\ \hline 3x = 69 \\ \frac{3x}{3} = \frac{69}{3} \\ \boxed{x = 23} \end{array}$$

20)

$$35 + (x - 24) + 29 = 180$$

$$x - 24 = 180 - 35 - 29$$

$$x - 24 = 121$$

$$x = 121 + 24$$

$$\boxed{x = 145}$$

21)

$$(2 + 3x) = 62$$

$$3x = 60$$

$$\frac{3x}{3} = \frac{60}{3}$$

$$\boxed{x = 20}$$

22)

$$90 + (16x + 2) + 40 = 180$$

$$16x + 142 = 180$$

$$16x = 38$$

$$\frac{16x}{16} = \frac{38}{16}$$

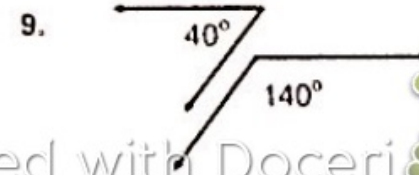
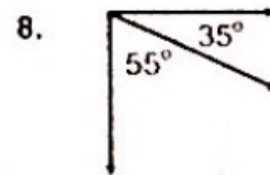
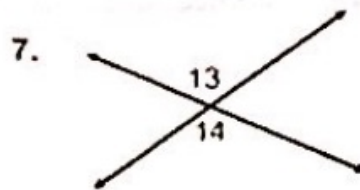
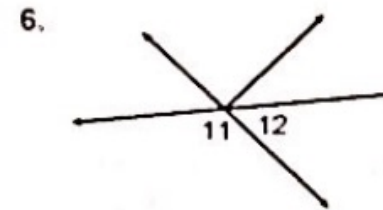
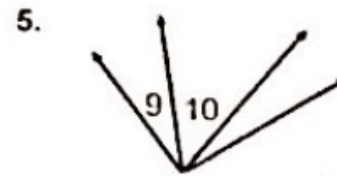
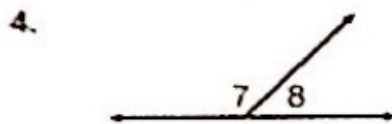
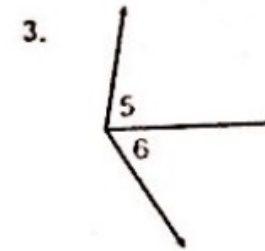
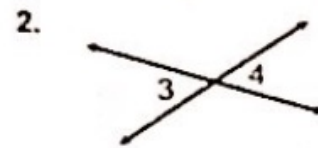
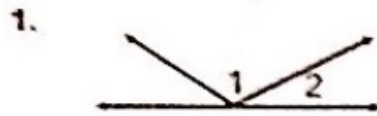
$$\boxed{x = 2.375}$$

$x - 24 = 35$  or  $x - 24 + 29 = 64$   
 $\begin{array}{r} x - 24 = 35 \\ +24 \quad +24 \\ \hline \boxed{x = 59} \end{array}$

$6x + 2 = 50$   
 $\begin{array}{r} 6x + 2 = 50 \\ -2 \quad -2 \\ \hline 6x = 48 \\ \frac{6x}{6} = \frac{48}{6} \\ \boxed{x = 8} \end{array}$

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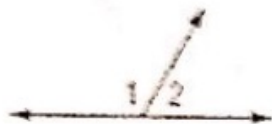
Identify each pair of angles as adjacent, vertical, complementary, supplementary, or a linear pair.



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Find the measure of each numbered angle.

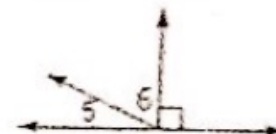
7.  $m\angle 2 = 57$



8.  $m\angle 1 = 38$



9.  $m\angle 5 = 22$

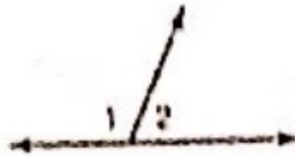


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$m\angle 1 = 65$



11.  $m\angle 2 = 67$



12.  $m\angle 3 = 38$

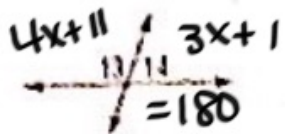


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3.  $m\angle 13 = 4x + 11$ ,  
 $m\angle 14 = 3x + 1$



$$\underline{4x+11} + \underline{3x+1} = 180$$

$$7x + 12 = 180$$

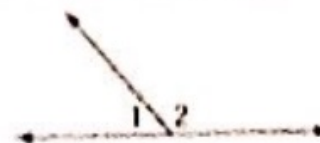
14.  $m\angle 2 = 4x - 26$ ,  
 $m\angle 3 = 3x + 4$



$$4x - 26 = 3x + 4$$

$$\begin{array}{r} 4x - 26 = 3x + 4 \\ -3x \quad -3x \\ \hline x - 26 = 4 \\ +26 \quad +26 \\ \hline x = 30 \end{array}$$

15.  $m\angle 1 = x + 10$   
 $m\angle 2 = 3x + 18$



16.  $m\angle 6 = 7x - 24$   
 $m\angle 7 = 5x + 14$



17.  $m\angle 4 = 2x - 5$   
 $m\angle 5 = 4x - 13$



18.  $\angle 7$  and  $\angle 8$  are complementary.  $\angle 5 = \angle 8$  and  $m\angle 6 = 29$ .



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