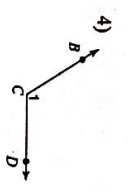
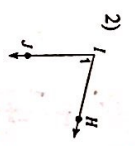
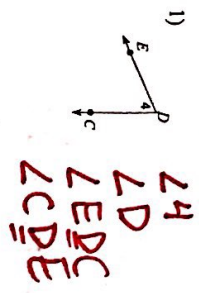


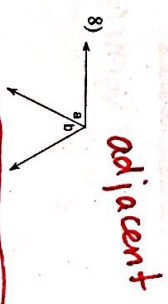
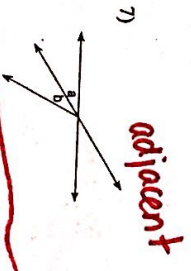
Angle Relationships CLASSWORK

Name \_\_\_\_\_ Date \_\_\_\_\_ Period \_\_\_\_\_

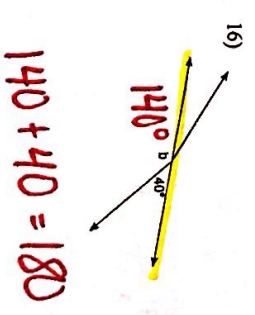
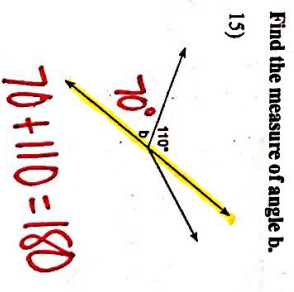
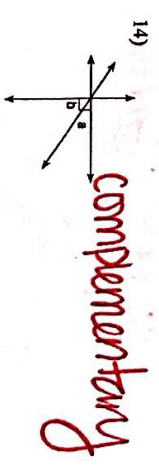
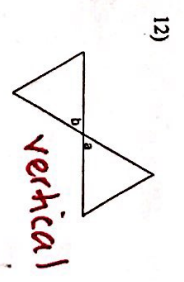
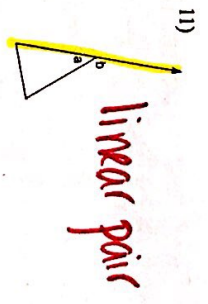
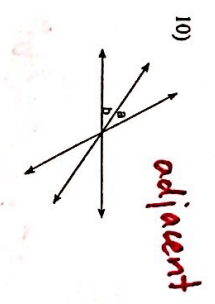
Name each angle in four ways.



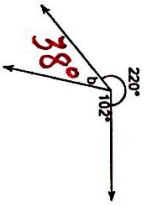
Name the relationship: complementary, linear pair, vertical, or adjacent.



complementary: add to  $90^\circ$   
linear pair: add to  $180^\circ$   
 adjacent: next to each other  
 vertical angles: ~~1~~ ~~2~~ (congruent)

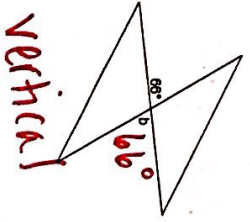


17)



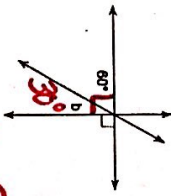
$$38 + 102 + 220 = 360$$

18)



vertical

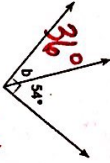
19)



$$30 + 60 = 90$$

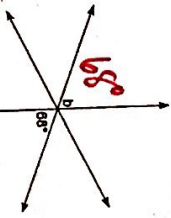
complementary

20)



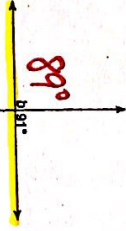
$$36 + 54 = 90$$

21)



vertical

22)

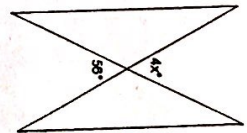


$$89 + 91 = 180$$

Linear Pair

Find the value of x.

23)



vertical

$$\frac{4x}{4} = \frac{50}{4}$$

$$x = 14$$

25)



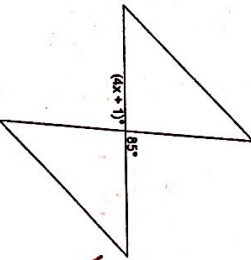
$$x - 7 + 125 = 180$$

$$x + 118 = 180$$

$$-118 \quad -118$$

$$x = 62$$

27)



vertical

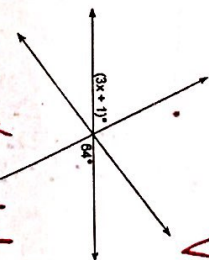
$$4x + 1 = 55$$

$$4x = 54$$

$$\frac{4x}{4} = \frac{54}{4}$$

$$x = 13.5$$

24)



vertical

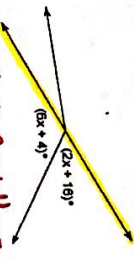
$$3x + 1 = 64$$

$$3x = 63$$

$$\frac{3x}{3} = \frac{63}{3}$$

$$x = 21$$

26)



$$6x + 4 + 2x + 16 = 180$$

$$8x + 20 = 180$$

$$-20 \quad -20$$

$$8x = 160$$

$$\frac{8x}{8} = \frac{160}{8}$$

$$x = 20$$

28)



vertical

$$3x = 2x$$

$$x = 0$$