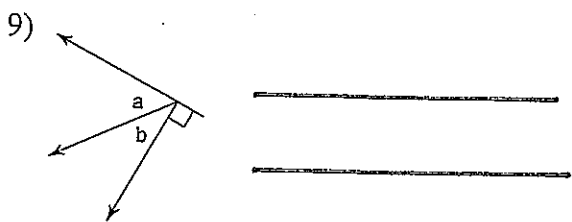
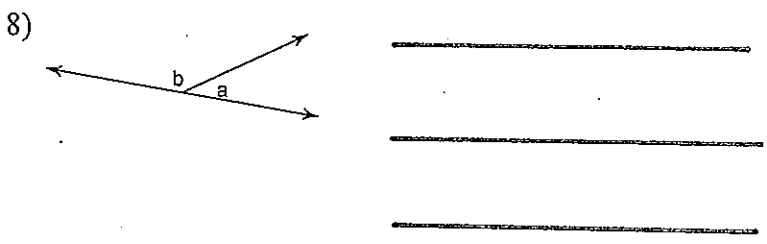
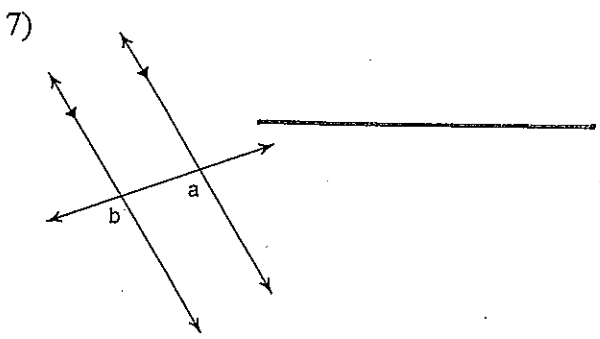
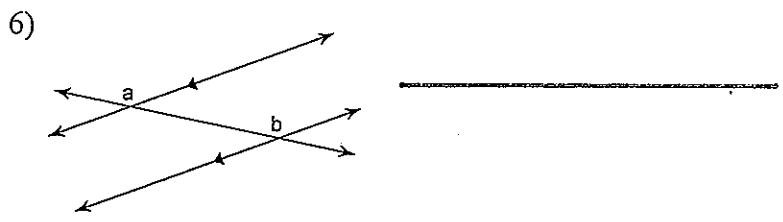
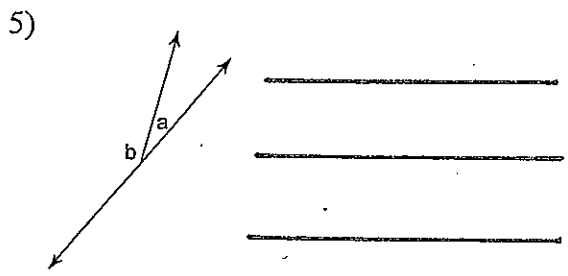
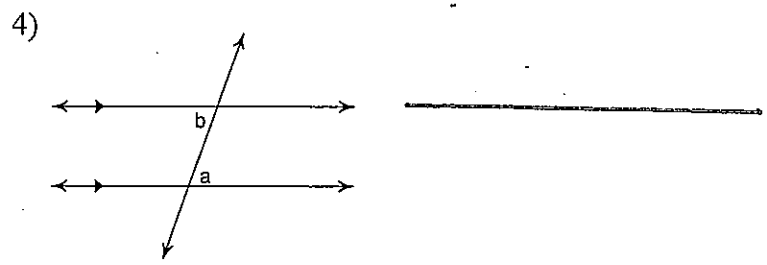
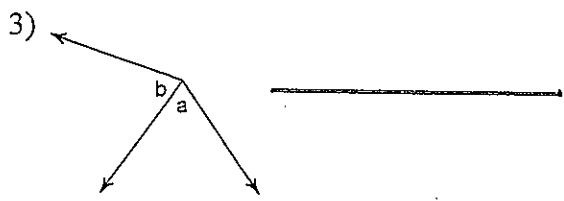
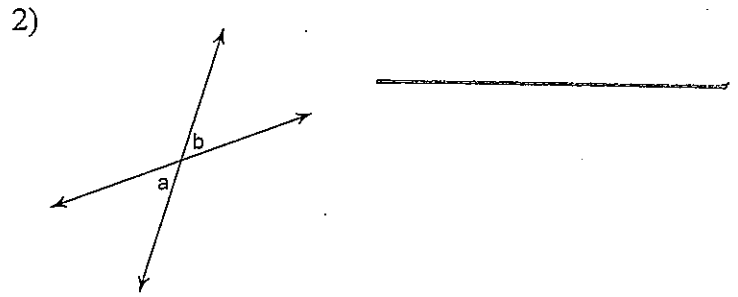
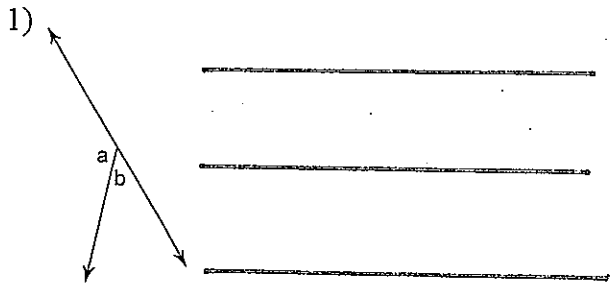


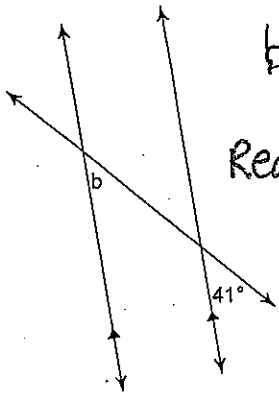
# Unit Three Test Review

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



Find the measure of angle b. State the reason. Choose from VAT, AEAT, AIAT, CAP, SSIT, Definition of Linear Pair or Definition of Complementary.

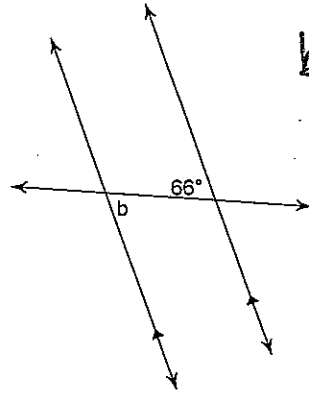
10)



$b = \underline{\hspace{2cm}}^\circ$

Reason: \_\_\_\_\_

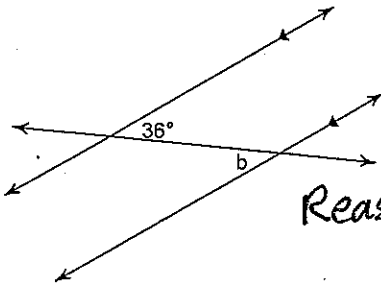
11)



$b = \underline{\hspace{2cm}}^\circ$

Reason: \_\_\_\_\_

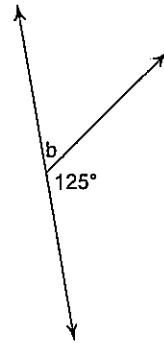
12)



$b = \underline{\hspace{2cm}}^\circ$

Reason: \_\_\_\_\_

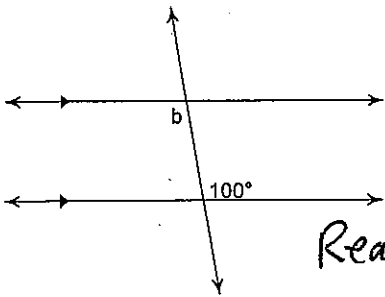
13)



$b = \underline{\hspace{2cm}}^\circ$

Reason: \_\_\_\_\_

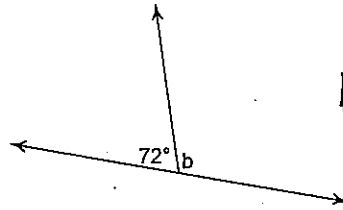
14)



$b = \underline{\hspace{2cm}}^\circ$

Reason: \_\_\_\_\_

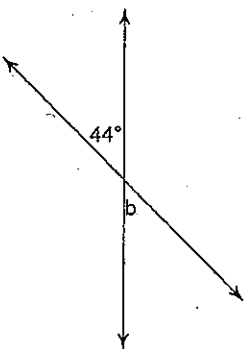
15)



$b = \underline{\hspace{2cm}}^\circ$

Reason: \_\_\_\_\_

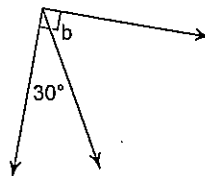
16)



$b = \underline{\hspace{2cm}}^\circ$

Reason: \_\_\_\_\_

17)

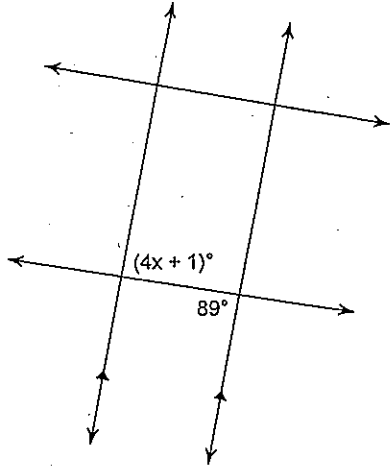


$b = \underline{\hspace{2cm}}^\circ$

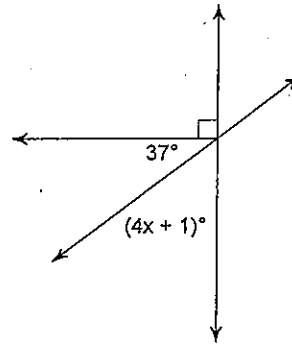
Reason: \_\_\_\_\_

Write and solve an equation to find the value of  $x$ .

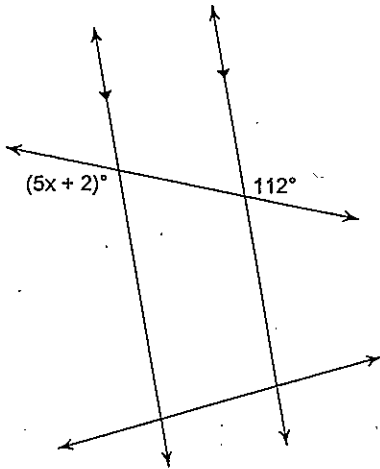
18)



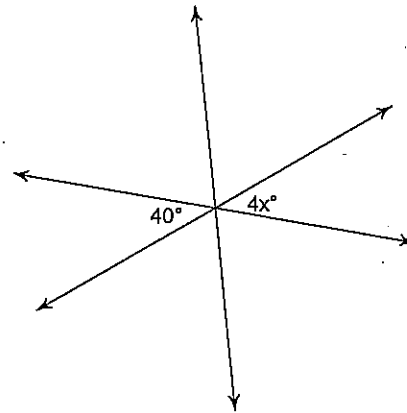
19)



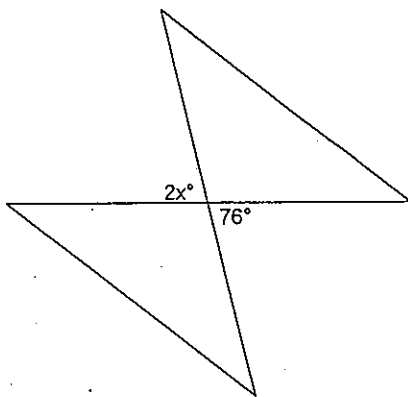
20)



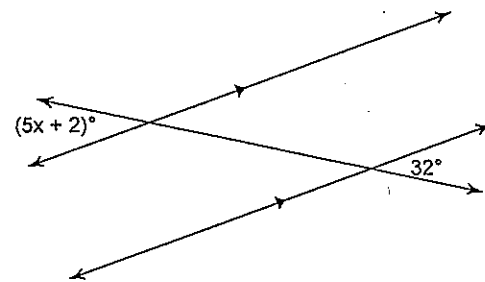
21)



22)

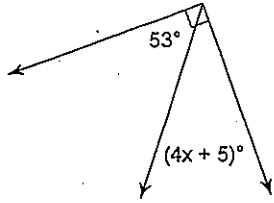


23)

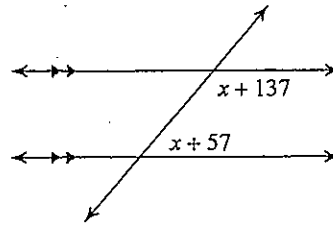


Write and solve an equation to find the value of  $x$ .

24)

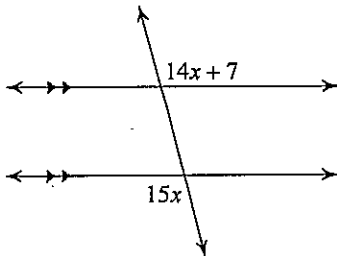


25)



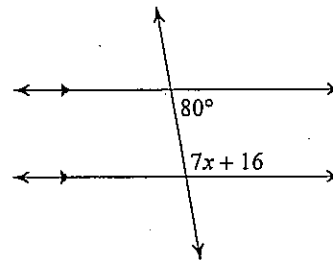
- A) -11      B) 4  
C) 7         D) -7

26)



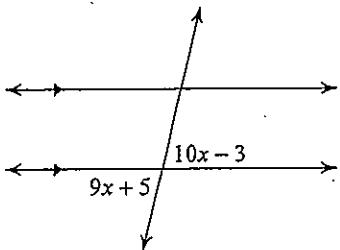
- A) -9      B) 4  
C) 7         D) 5

27)



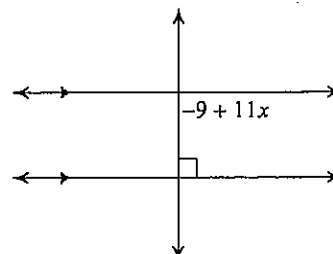
- A) 5         B) 6  
C) 10       D) 12

28)



- A) 9         B) 4  
C) 6         D) 8

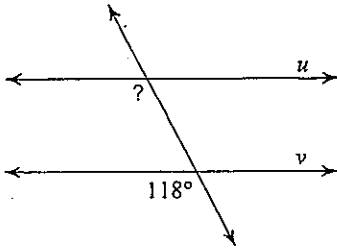
29)



- A) 4         B) 9  
C) 5         D) -5

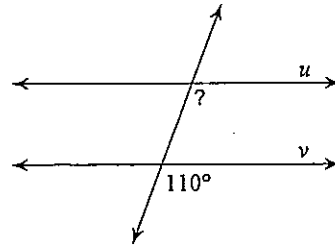
Find the measure of the indicated angle that makes lines  $u$  and  $v$  parallel.

30)



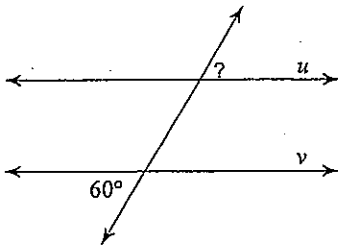
- A)  $119^\circ$
- B)  $80^\circ$
- C)  $118^\circ$
- D)  $65^\circ$

31)



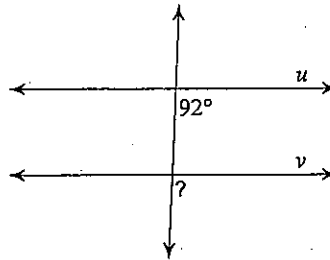
- A)  $53^\circ$
- B)  $80^\circ$
- C)  $110^\circ$
- D)  $135^\circ$

32)



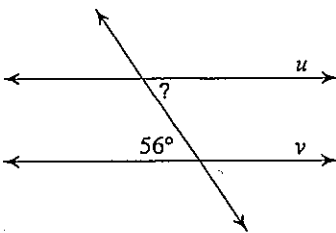
- A)  $60^\circ$
- B)  $55^\circ$
- C)  $80^\circ$
- D)  $70^\circ$

33)



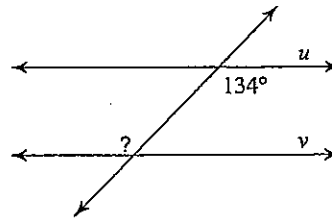
- A)  $84^\circ$
- B)  $70^\circ$
- C)  $91^\circ$
- D)  $92^\circ$

34)



- A)  $50^\circ$
- B)  $56^\circ$
- C)  $59^\circ$
- D)  $55^\circ$

35)



- A)  $134^\circ$
- B)  $60^\circ$
- C)  $128^\circ$
- D)  $51^\circ$

Name the property that justifies each statement. Choose from reflexive, transitive or symmetric properties.

36.  $\angle Z \cong \angle Z$

37. If  $\angle 1 \cong \angle 2$  and  $\angle 2 \cong \angle 3$ , then  $\angle 1 \cong \angle 3$

38. If  $AB = YU$  then  $YU = AB$

39. If  $\angle XYZ \cong \angle AOB$  and  $\angle AOB \cong \angle WYT$ , then  $\angle XYZ \cong \angle WYT$

40.  $XY = YX$

41. If  $\angle H \cong \angle K$ , then  $\angle K \cong \angle H$

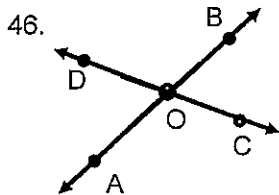
42.  $\overline{LR} \cong \overline{RL}$

43.  $\angle CBA \cong \angle ABC$

44. If you are younger than Santa Claus and Santa Claus is younger than Toothfairy, then you are younger than Toothfairy.

45. If  $x = 5$  and  $5 = y$ , then  $x = y$ .

Find two pairs of congruent angles in each figure. Justify your answer by giving a reason.

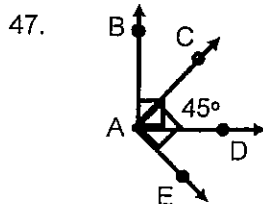


\_\_\_\_\_ and \_\_\_\_\_

Reason: \_\_\_\_\_

\_\_\_\_\_ and \_\_\_\_\_

Reason: \_\_\_\_\_

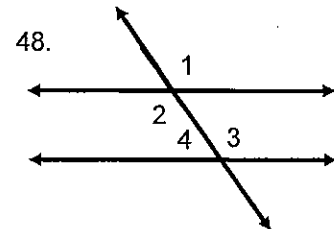


\_\_\_\_\_ and \_\_\_\_\_

Reason: \_\_\_\_\_

\_\_\_\_\_ and \_\_\_\_\_

Reason: \_\_\_\_\_



\_\_\_\_\_ and \_\_\_\_\_

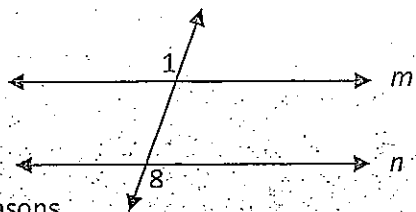
Reason: \_\_\_\_\_

\_\_\_\_\_ and \_\_\_\_\_

Reason: \_\_\_\_\_

49.

Given  $m \parallel n$   
 Prove  $\angle 1 \cong \angle 8$



Statements

Reasons

1.  $m \parallel n$

1. \_\_\_\_\_

2. \_\_\_\_\_

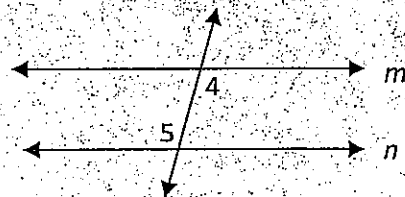
2. Definition of \_\_\_\_\_

3.  $\angle 1 \cong \angle 8$

3. \_\_\_\_\_

50.

Given  $m \parallel n$   
 Prove  $\angle 4 \cong \angle 5$



Statements

Reasons

1. \_\_\_\_\_

1. \_\_\_\_\_

2. \_\_\_\_\_

2. \_\_\_\_\_

3. \_\_\_\_\_

3. \_\_\_\_\_