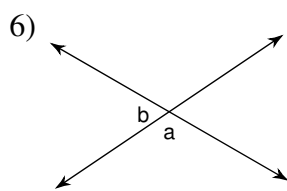
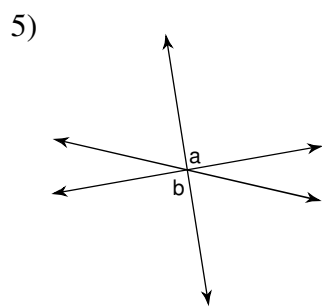
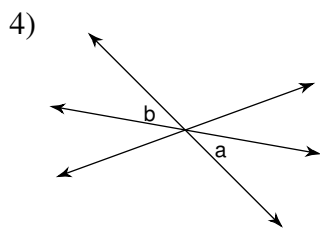
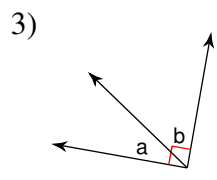
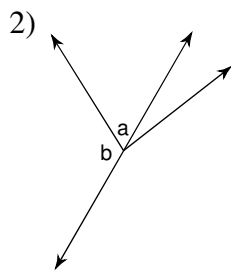
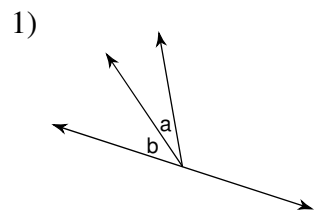
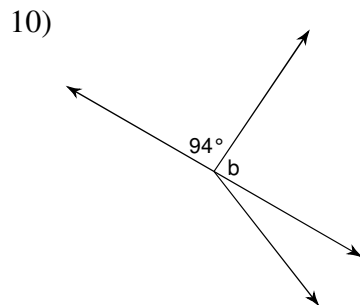
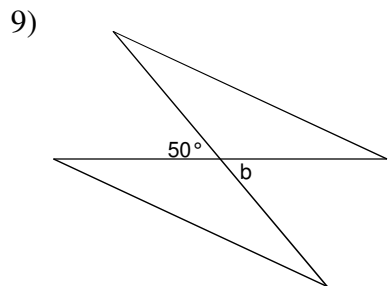
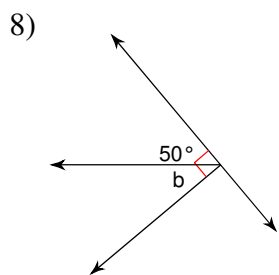
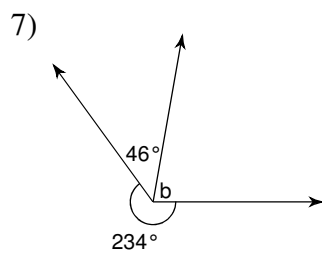


# Angle Pair Relationships

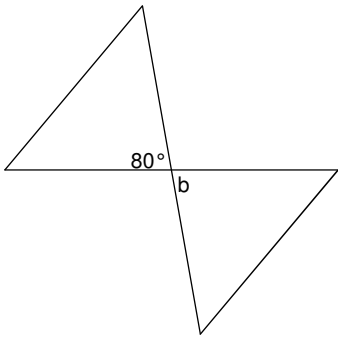
Name the relationship: complementary, linear pair, vertical, or adjacent.



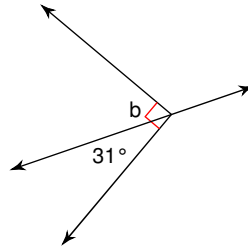
Find the measure of angle b.



11)

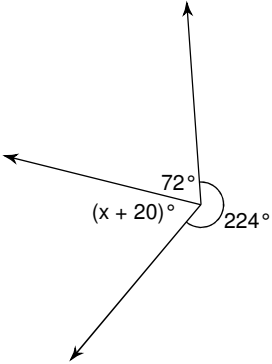


12)

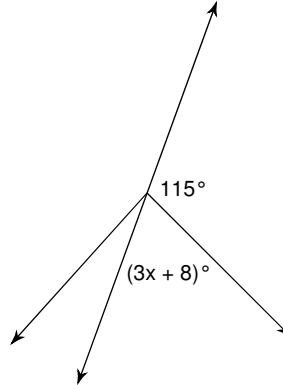


**Find the value of x.**

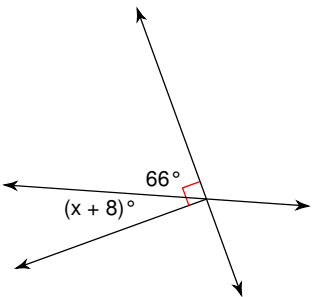
13)



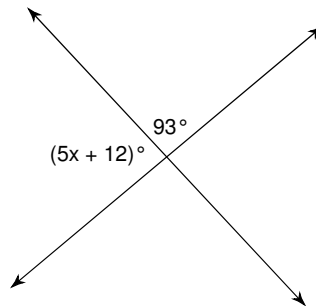
14)



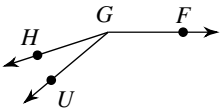
15)



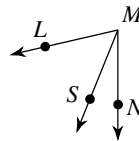
16)



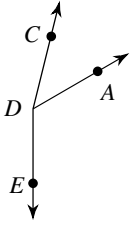
17) Find  $m\angle FGU$  if  $m\angle FGH = 162^\circ$  and  $m\angle UGH = 22^\circ$ .



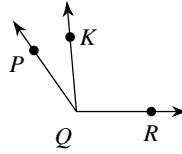
18) Find  $m\angle NML$  if  $m\angle NMS = 22^\circ$  and  $m\angle SML = 55^\circ$ .



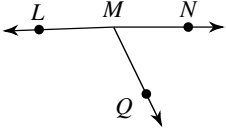
- 19)  $m\angle CDE = 166^\circ$  and  $m\angle CDA = 46^\circ$ .  
Find  $m\angle ADE$ .



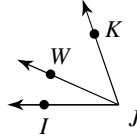
- 20)  $m\angle KQR = 22x + 7$ ,  $m\angle PQR = 32x - 3$ ,  
and  $m\angle PQK = 30^\circ$ . Find  $x$ .



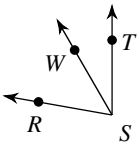
- 21) Find  $x$  if  $m\angle NML = 178^\circ$ ,  
 $m\angle NMQ = 74 + x$ , and  $m\angle QML = x + 124$ .



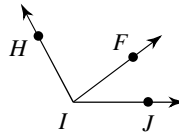
- 22) Find  $x$  if  $m\angle IJK = 9x - 1$ ,  $m\angle WJK = 7 + 5x$ ,  
and  $m\angle IJW = 24^\circ$ .



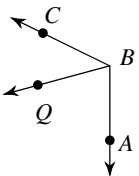
- 23)  $m\angle RSW = x + 62$ ,  $m\angle WST = x + 42$ ,  
and  $m\angle RST = 80^\circ$ . Find  $m\angle RSW$ .



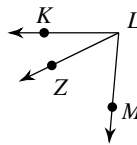
- 24)  $m\angle HIJ = 14x + 6$ ,  $m\angle FIJ = 3x + 13$ ,  
and  $m\angle HIF = 81^\circ$ . Find  $m\angle HIJ$ .



- 25) Find  $m\angle ABQ$  if  $m\angle ABC = 2x + 116$ ,  
 $m\angle ABQ = x + 75$ , and  $m\angle QBC = 41^\circ$ .



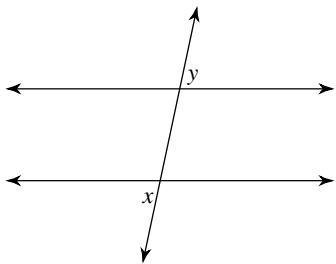
- 26) Find  $m\angle ZLK$  if  $m\angle MLK = 10x - 5$ ,  
 $m\angle ZLK = 2x + 8$ , and  $m\angle MLZ = 59^\circ$ .



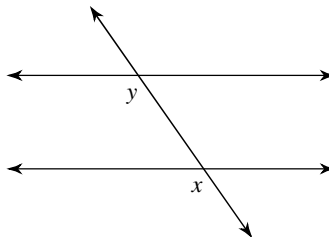
## Parallel Lines and Transversals

Identify each pair of angles as corresponding, alternate interior, alternate exterior, or same-side interior.

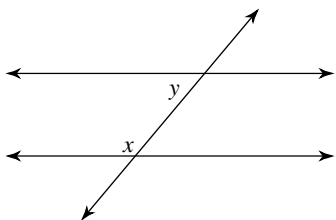
1)



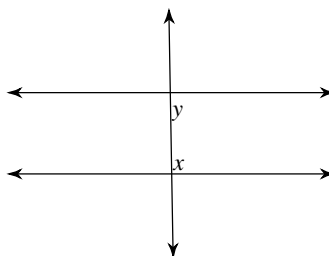
2)



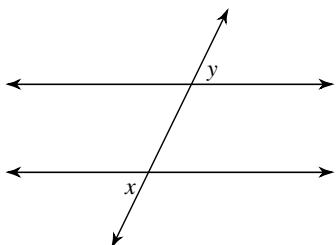
3)



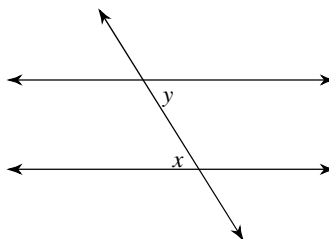
4)



5)

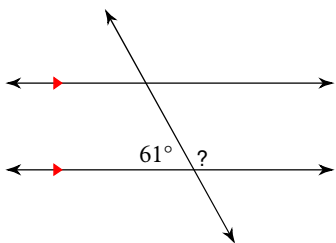


6)

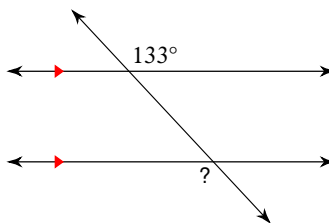


Find the measure of each angle indicated.

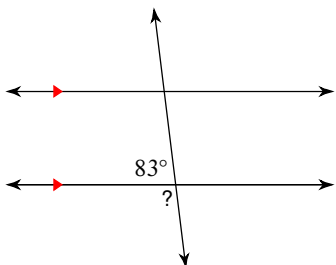
7)



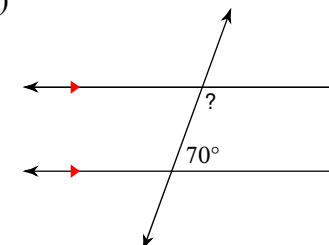
8)



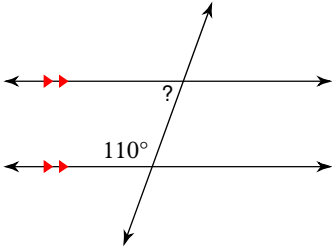
9)



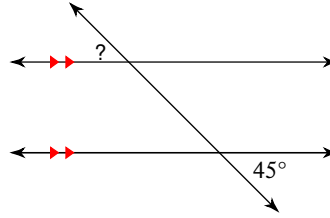
10)



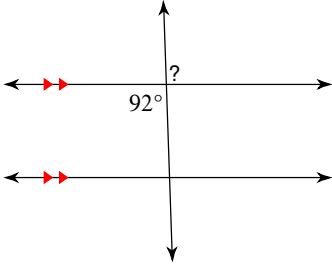
11)



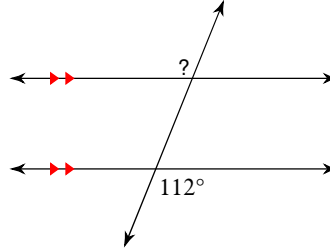
12)



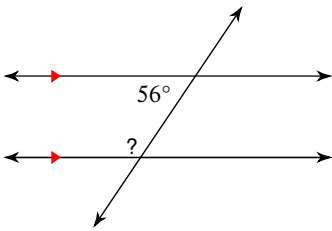
13)



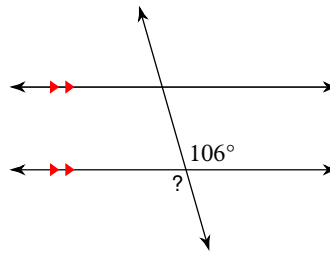
14)



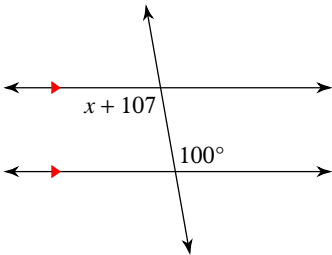
15)



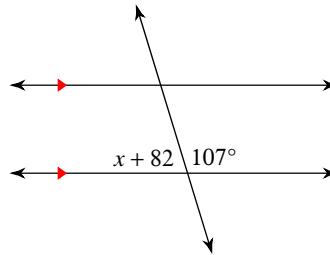
16)

**Solve for  $x$ .**

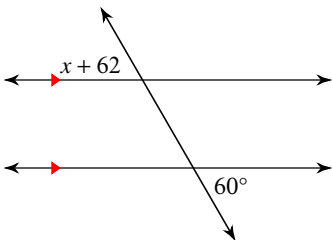
17)



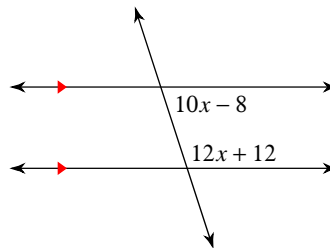
18)



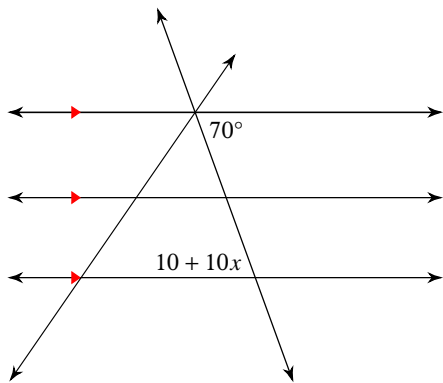
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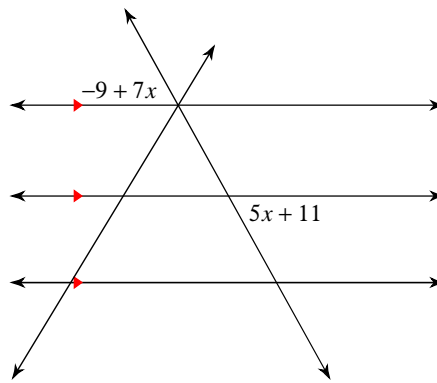
20)



21)

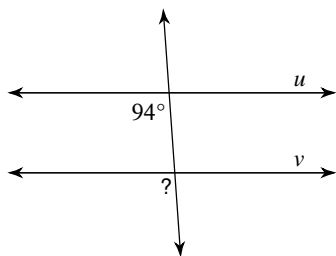


22)

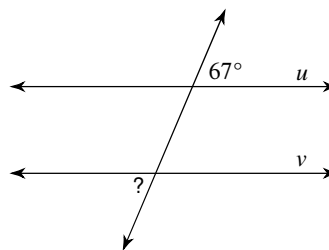


**Find the measure of the indicated angle that makes lines  $u$  and  $v$  parallel.**

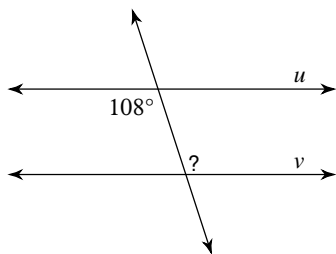
23)



24)



25)



26)

