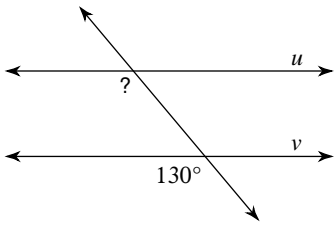


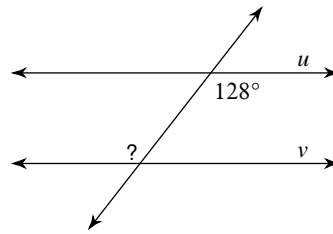
# Proving Lines Parallel

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

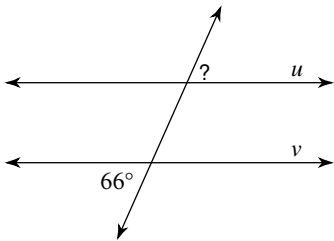
1)



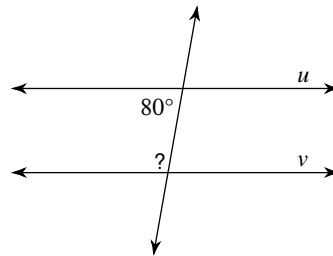
2)



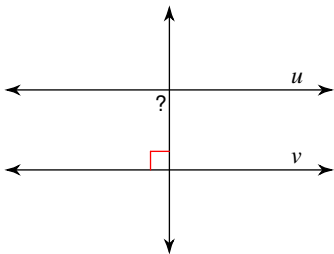
3)



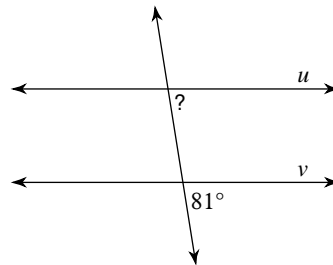
4)



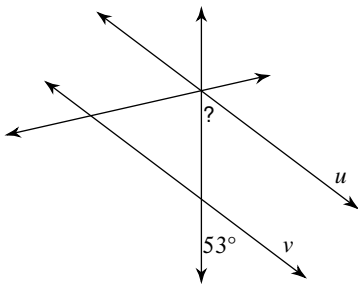
5)



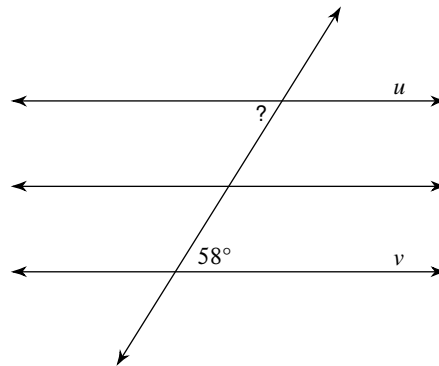
6)



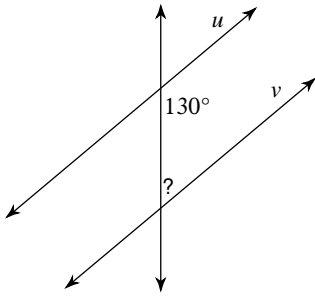
7)



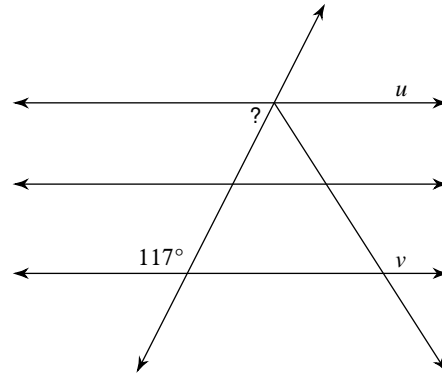
8)



9)

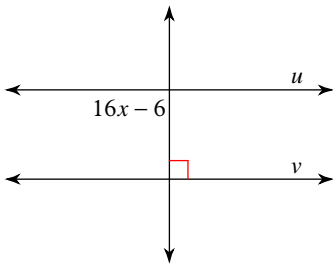


10)

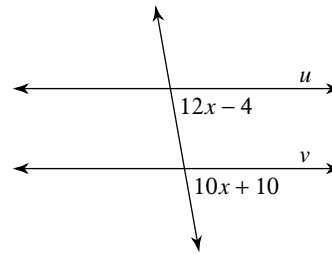


**Find the value of  $x$  that makes lines  $u$  and  $v$  parallel.**

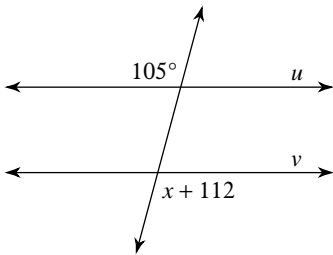
11)



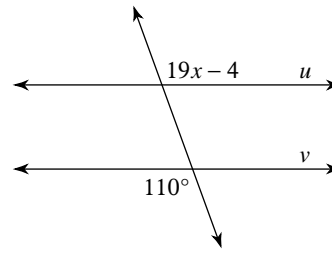
12)



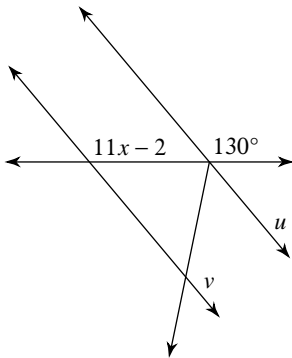
13)



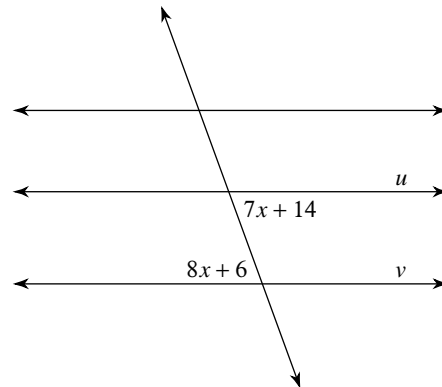
14)



15)



16)



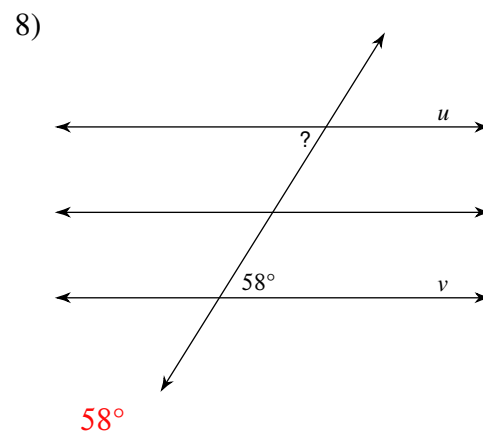
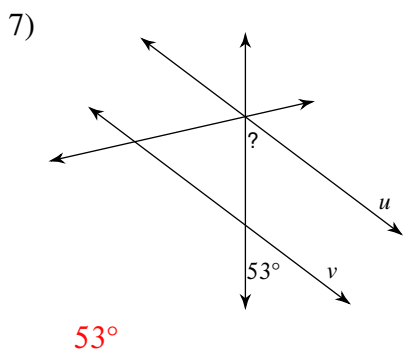
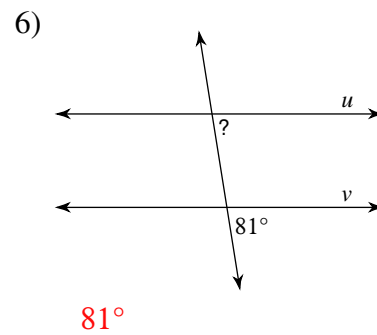
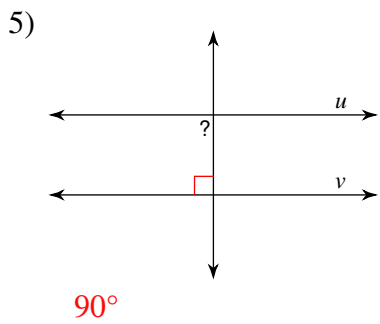
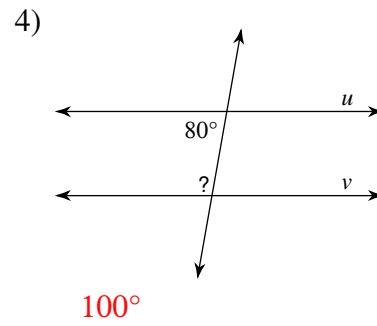
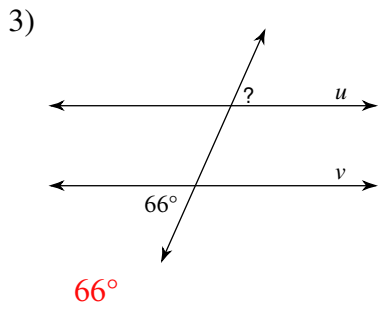
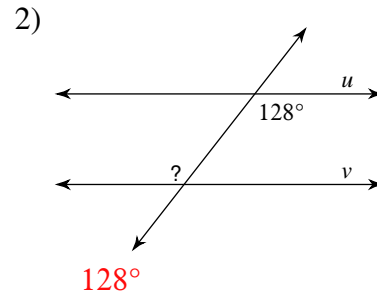
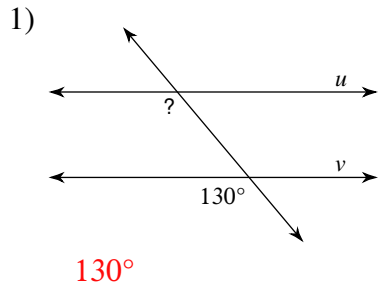
**Critical thinking questions:**

17) For question #16, find a value of  $x$  that makes lines  $u$  and  $v$  intersect.

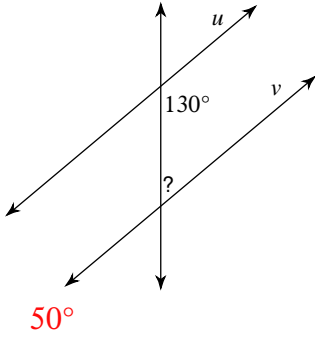
18) Even if the lines in question #16 were not parallel, could  $x = 25$ ? Why or why not?

# Proving Lines Parallel

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

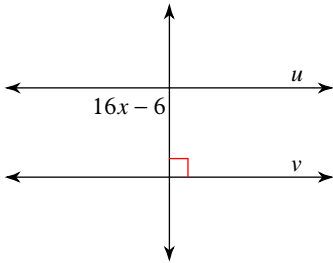


9)



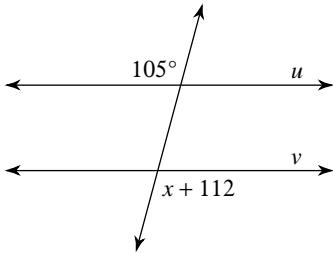
Find the value of  $x$  that makes lines  $u$  and  $v$  parallel.

11)



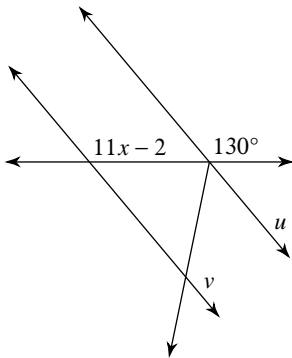
6

13)



-7

15)



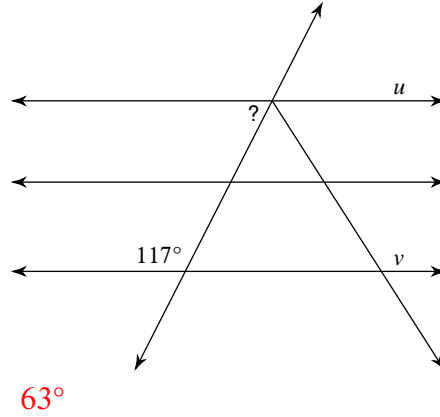
12

**Critical thinking questions:**

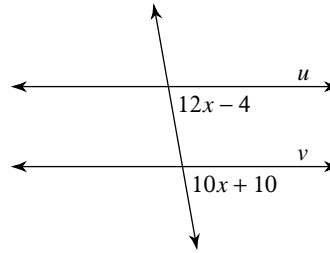
17) For question #16, find a value of  $x$  that makes lines  $u$  and  $v$  intersect.

Any value other than 8. Ideally  $0 \leq x \leq 10$

10)

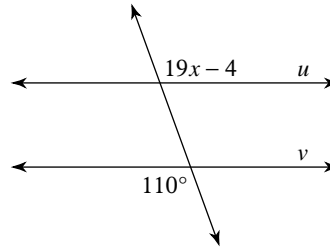


12)



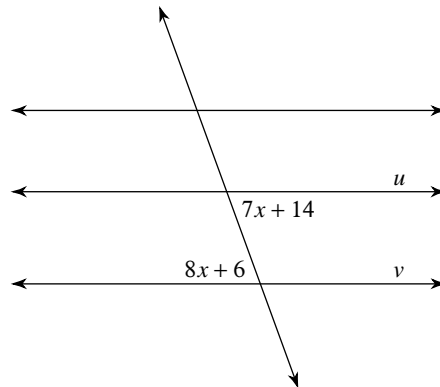
7

14)



6

16)



8

18) Even if the lines in question #16 were not parallel, could  $x = 25$ ? Why or why not?

No, that would make the angles  $189^\circ$  and  $206^\circ$ .