

For all of the following problems, follow directions and make sure to identify which converse is being used.

Kuta Software - Infinite Geometry

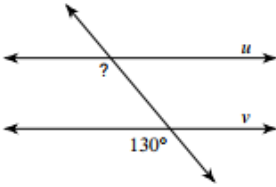
Name _____

Proving Lines Parallel

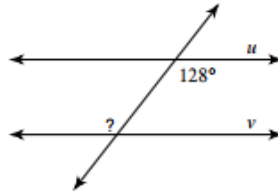
Date _____ Period ____

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

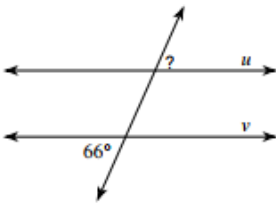
1)



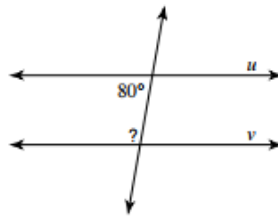
2)



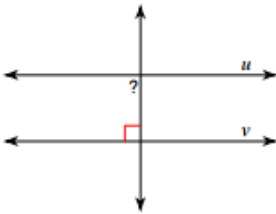
3)



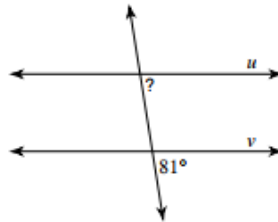
4)



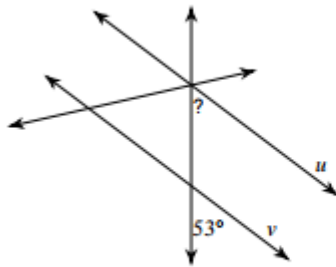
5)



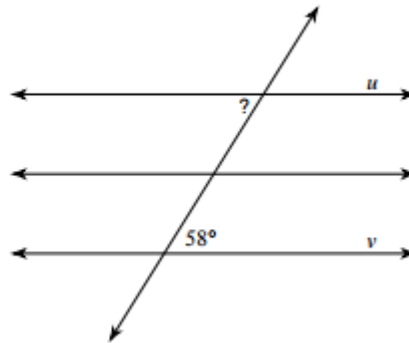
6)



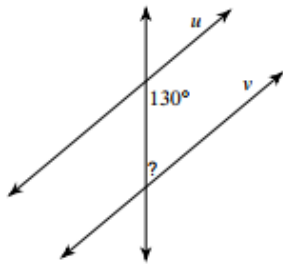
7)



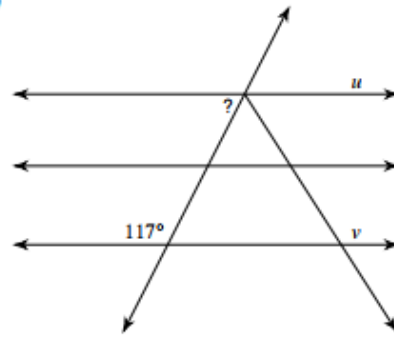
8)



9)

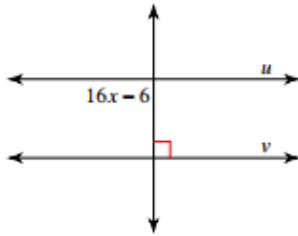


10)

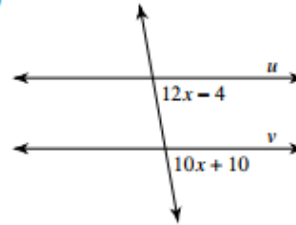


Find the value of x that makes lines u and v parallel.

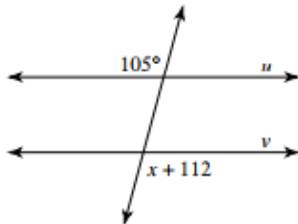
11)



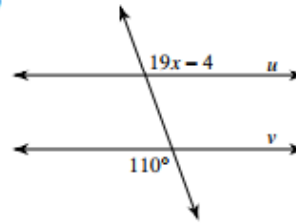
12)



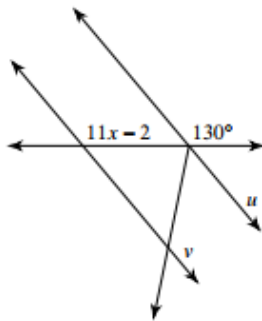
13)



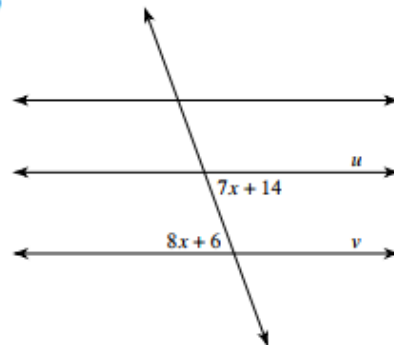
14)



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?