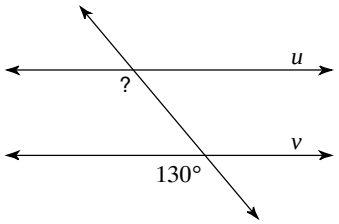
Name_____

Proving Lines Parallel

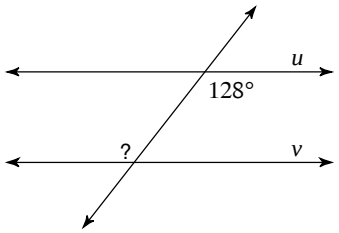
Date_____ Period____

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

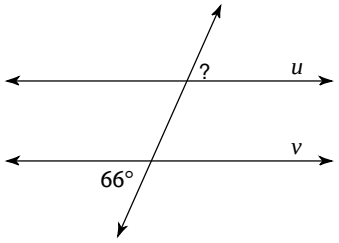
1)



2)



3)



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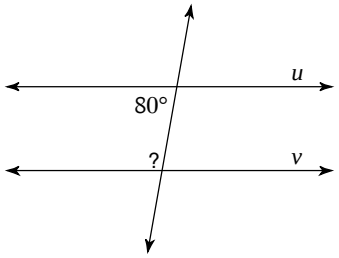
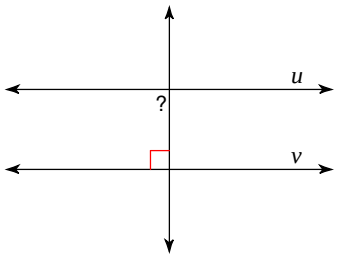


5)



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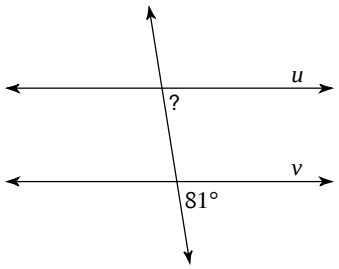
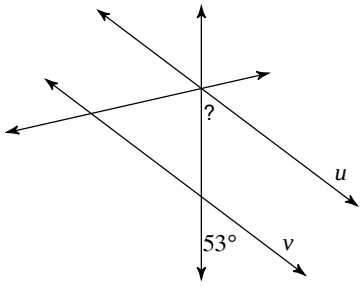
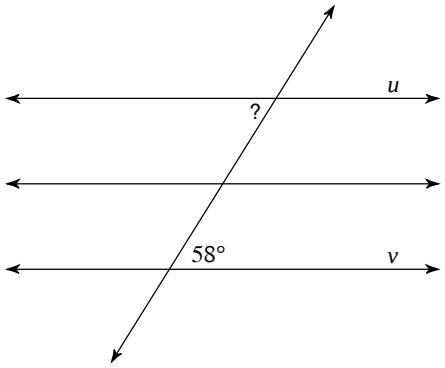


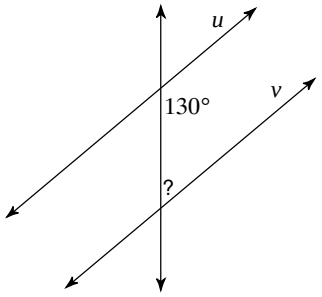
7)



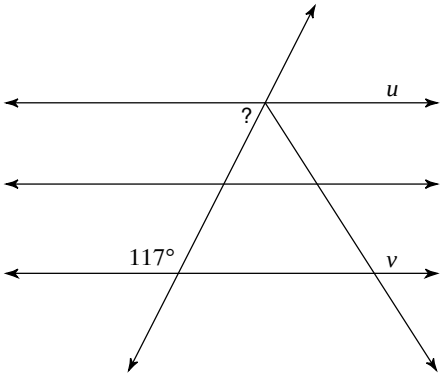
8)



9)

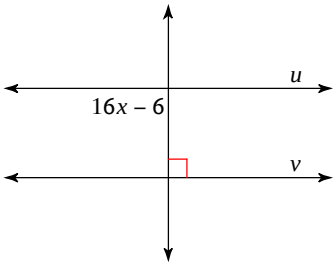


10)

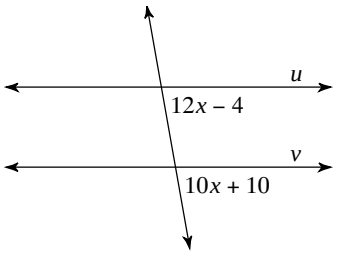


Find the value of *x* that makes lines u and v parallel.

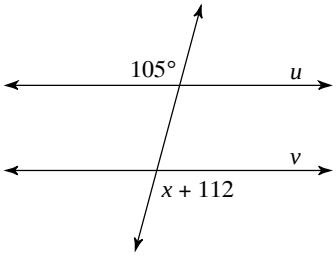
11)



12)



13)



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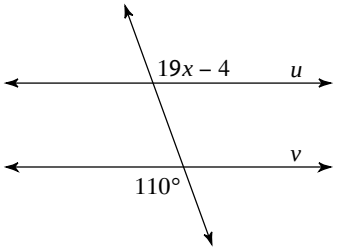

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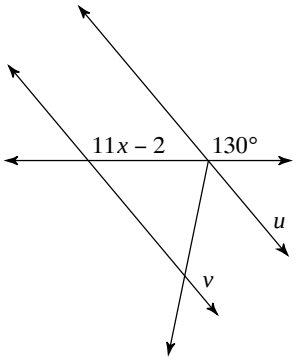
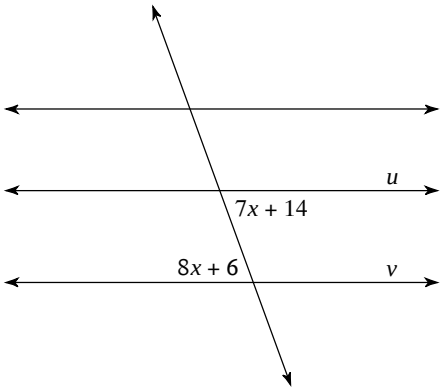


16)



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?

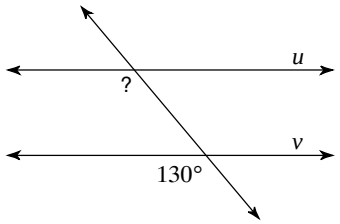
Name_____

Proving Lines Parallel

Date_____ Period____

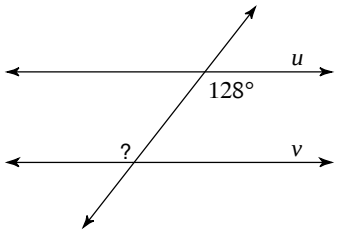
Find the measure of the indicated angle that makes lines u and v parallel.

1)



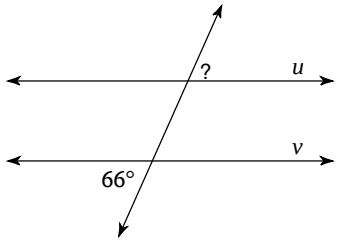
130°

2)



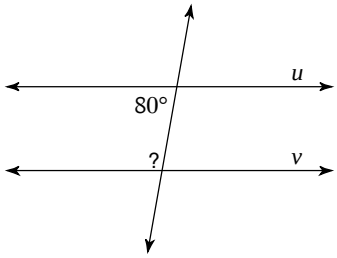
128°

3)



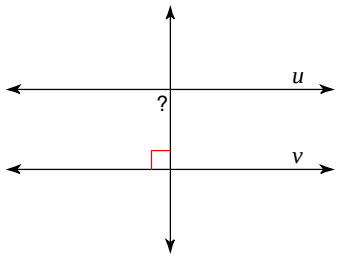
66°

4)



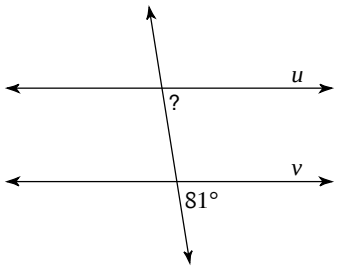
100°

5)



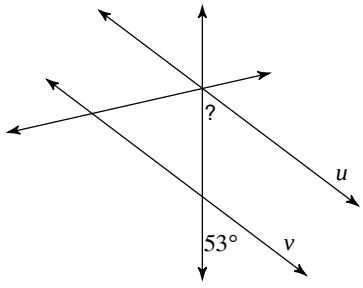
90°

6)



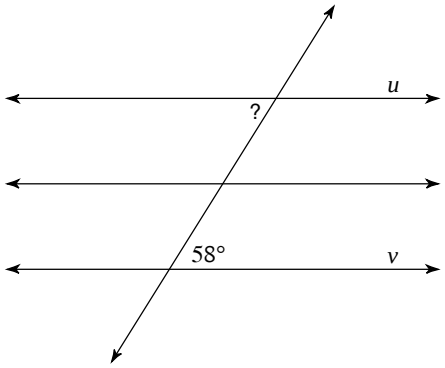
81°

7)



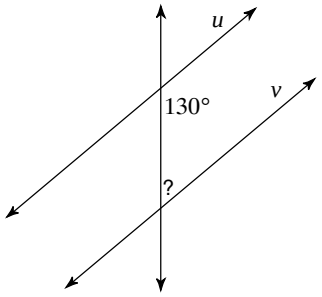
53°

8)

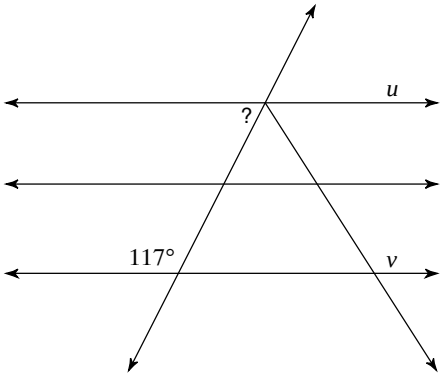


58°

9) 50°

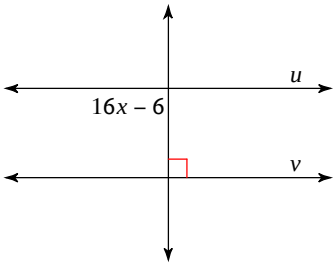


10) 63°

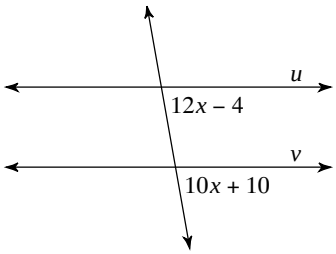


Find the value of *x* that makes lines u and v parallel.

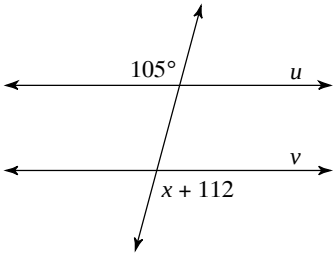
11) 6



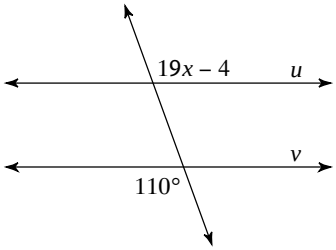
12) 7



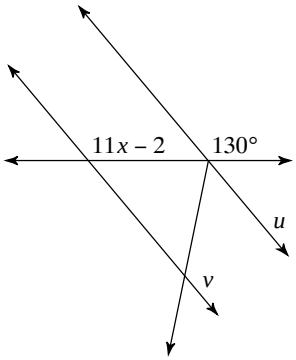
13) –7



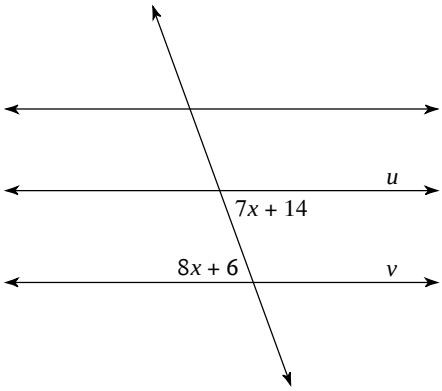
14) 6



15) 12



16) 8



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 $0 \le x \le 10$

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° and 206°.