

Read the following theorems carefully:

000	If two lines are cut by a transversal such that the corresponding angles are equal, then
	the lines are parallel.

- If two lines are cut by a transversal such that the alternate interior angles are equal, then the lines are parallel.
- If two lines are cut by a transversal such that the alternate exterior angles are equal, then the lines are parallel.
- If two lines are cut by a transversal such that the co-interior angles are supplementary, then the lines are parallel.

Use the above chart and complete the table below.



Relations between Angles	Name the Transversal and Parallel Lines (or write 'none')	Reason (write the appropriate theorem number)
m∠7 + m∠14 = 180°	line b, r s	Theorem ④
∠12=∠14		
∠3 =∠11		
m∠8 + m∠10 = 180°		
∠5 =∠15	1	
∠7 =∠10	1 1 1	
∠4 = ∠10		
m∠3 + m∠8 = 180°	 	1

Geometry Proving Lines Parallel Worksheet Answers

Philip L. Cox

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