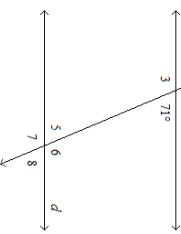
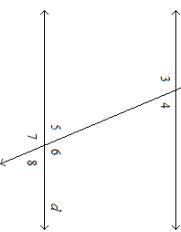


In the diagram,  $c \parallel d$ . Identify three numbered angles that have a measure of  $71^\circ$ .



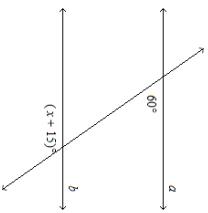
- a.  $\angle 5$ ,  $\angle 8$ , and  $\angle 2$
- b.  $\angle 1$ ,  $\angle 5$ , and  $\angle 8$
- c.  $\angle 1$ ,  $\angle 8$ , and  $\angle 3$
- d.  $\angle 1$ ,  $\angle 2$ , and  $\angle 3$

In the diagram,  $c \parallel d$ . Identify three numbered angles that have a measure of  $57^\circ$ .



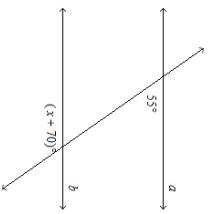
- a.  $\angle 4$ ,  $\angle 8$ , and  $\angle 6$
- b.  $\angle 4$ ,  $\angle 2$ , and  $\angle 6$
- c.  $\angle 4$ ,  $\angle 3$ , and  $\angle 8$
- d.  $\angle 5$ ,  $\angle 8$ , and  $\angle 2$

In the diagram,  $a \parallel b$ . Find the value of  $x$ .



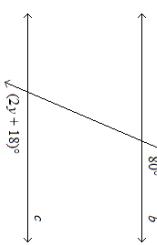
- a. 45
- b. 135
- c. 105
- d. 75

In the diagram,  $a \parallel b$ . Find the value of  $x$ .



- a. 55
- b. -15
- c. 195
- d. 125

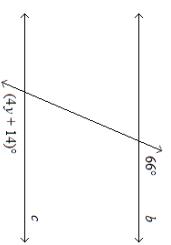
In the diagram,  $b \parallel c$ . Find the value of  $y$ .



- a. 31  
b. 59  
c. 41  
d. 49

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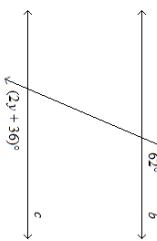
In the diagram,  $b \parallel c$ . Find the value of  $y$ .



- a. 32  
b. 25  
c. 13  
d. 20

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In the diagram,  $b \parallel c$ . Find the value of  $y$ .



- a. 13  
b. 49  
c. 77  
d. 41

Statement		Reason	
1.	$a \parallel b$	1. Given	
2.	$\angle 4 \text{ and } \angle 5$ are supplementary	2. Vertical Angles	
3.	$\angle 4$ and $\angle 5$ are supplementary	3. Same-Side Interior Angles	
4.	$\angle 4 \text{ and } \angle 5$ are supplementary	4. Vertical Angles	
5.	$\angle 4$ and $\angle 5$ are supplementary	5. Substitution	

Statement		Reason	
1.	$a \parallel b$	1. Given	
2.	$\angle 4 \text{ and } \angle 5$	2. Vertical Angles	
3.	$\angle 4$ and $\angle 5$ are supplementary	3. Alternate Interior Angles	
4.	$\angle 4 \text{ and } \angle 5$	4. Vertical Angles	
5.	$\angle 4$ and $\angle 5$ are supplementary	5. Same-Side Interior Angles	

Statement		Reason	
1.	$a \parallel b$	1. Given	
2.	$\angle 4 \text{ and } \angle 5$	2. Corresponding Angles	
3.	$\angle 4$ and $\angle 5$ are supplementary	3. Same-Side Exterior Angles	
4.	$\angle 4 \text{ and } \angle 5$	4. Vertical Angles	
5.	$\angle 4$ and $\angle 5$ are supplementary	5. Substitution	

Which is a correct molecular post?  
Given  $\angle 1$   
Prov  $\angle 2$  and  $\angle 3$  are supplementary



a.	
Statements	Reasons
1. $\angle 1 \cong \angle 3$	1. Given
2. $\angle 2 \cong \angle 4$	2. Vertical Angles
3. $\angle 1$ and $\angle 3$ are supplementary	3. Always True Angles
4. $\angle 2 \cong \angle 4$	4. Vertical Angles
5. $\angle 2$ and $\angle 3$ are supplementary	5. Same-Side Interior Angles

b.	
Statements	Reasons
1. $\angle 1 \cong \angle 3$	1. Given
2. $\angle 2 \cong \angle 4$	2. Vertical Angles
3. $\angle 1$ and $\angle 3$ are supplementary	3. Same-Side Exterior Angles
4. $\angle 2 \cong \angle 4$	4. Vertical Angles
5. $\angle 2$ and $\angle 3$ are supplementary	5. Same-Side Interior Angles

c.	
Statements	Reasons
1. $\angle 1 \cong \angle 3$	1. Given
2. $\angle 2 \cong \angle 4$	2. Complementary Angles
3. $\angle 1$ and $\angle 3$ are supplementary	3. Same-Side Exterior Angles
4. $\angle 2 \cong \angle 4$	4. Vertical Angles
5. $\angle 2$ and $\angle 3$ are supplementary	5. Vertical Angles
d. none of these	6. Substitution

Write an equation of the line passing through the point  $(7, 2)$  that is parallel to the line  $y = 5x + 9$  in slope-intercept form.

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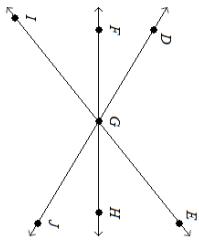
Write an equation of the line passing through the point  $(7, 2)$  that is parallel to the line  $y = 5x + 9$  in slope-intercept form.

Write an equation of the line passing through the point  $(-4, -9)$  that is parallel to the line  $y = 6x - 7$  in slope-intercept form.

Are the lines  $y = -x + 5$  and  $5x - 5y = 25$  perpendicular? Explain.

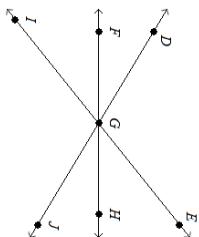
Are the lines  $y = -x + 8$  and  $2x + 2y = 10$  perpendicular? Explain.

Name an angle adjacent to  $\angle EGH$ .



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Name an angle adjacent to  $\angle FGI$ .



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