



# MAth on the Fly!

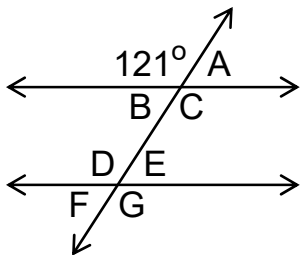


NAME: \_\_\_\_\_ DATE: \_\_\_\_\_

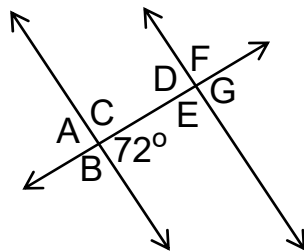
## Finding Angles with Transversals

In each picture below, a transversal is cutting through parallel lines.  
Find the measure of the other angles in each problem.

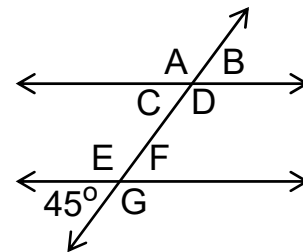
1.



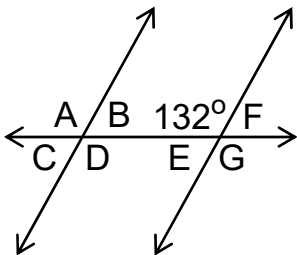
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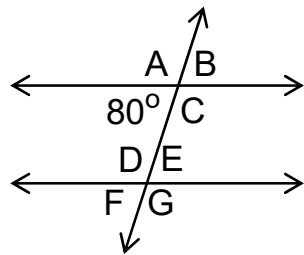
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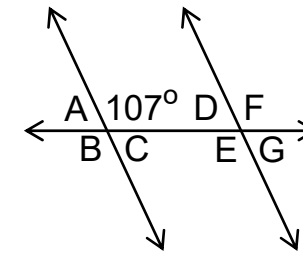
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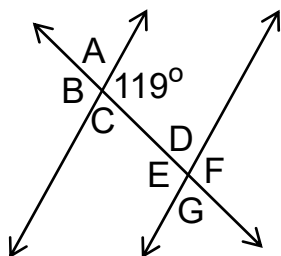
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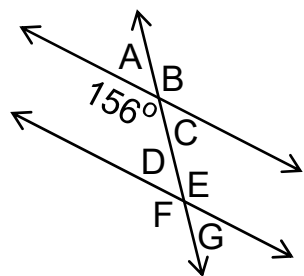
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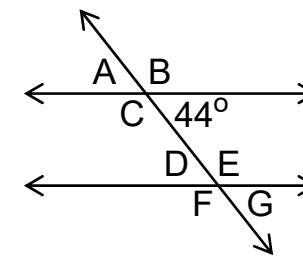
7.



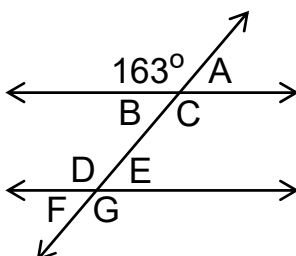
8.



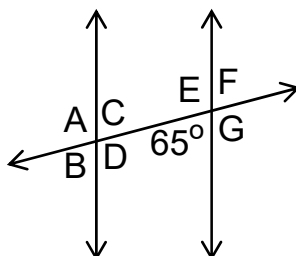
9.



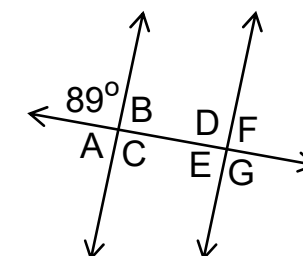
10.



11.



12.



## SOLUTIONS

1.  $A = 59^\circ$   
 $B = 59^\circ$   
 $C = 121^\circ$   
 $D = 121^\circ$   
 $E = 59^\circ$   
 $F = 59^\circ$   
 $G = 121^\circ$

2.  $A = 72^\circ$   
 $B = 108^\circ$   
 $C = 108^\circ$   
 $D = 72^\circ$   
 $E = 108^\circ$   
 $F = 108^\circ$   
 $G = 72^\circ$

3.  $A = 135^\circ$   
 $B = 45^\circ$   
 $C = 45^\circ$   
 $D = 135^\circ$   
 $E = 135^\circ$   
 $F = 45^\circ$   
 $G = 135^\circ$

4.  $A = 132^\circ$   
 $B = 48^\circ$   
 $C = 48^\circ$   
 $D = 132^\circ$   
 $E = 48^\circ$   
 $F = 48^\circ$   
 $G = 132^\circ$

5.  $A = 100^\circ$   
 $B = 80^\circ$   
 $C = 100^\circ$   
 $D = 100^\circ$   
 $E = 80^\circ$   
 $F = 80^\circ$   
 $G = 100^\circ$

6.  $A = 73^\circ$   
 $B = 107^\circ$   
 $C = 73^\circ$   
 $D = 73^\circ$   
 $E = 107^\circ$   
 $F = 107^\circ$   
 $G = 73^\circ$

7.  $A = 61^\circ$   
 $B = 119^\circ$   
 $C = 61^\circ$   
 $D = 61^\circ$   
 $E = 119^\circ$   
 $F = 119^\circ$   
 $G = 61^\circ$

8.  $A = 24^\circ$   
 $B = 156^\circ$   
 $C = 24^\circ$   
 $D = 24^\circ$   
 $E = 156^\circ$   
 $F = 156^\circ$   
 $G = 24^\circ$

9.  $A = 44^\circ$   
 $B = 136^\circ$   
 $C = 136^\circ$   
 $D = 44^\circ$   
 $E = 136^\circ$   
 $F = 136^\circ$   
 $G = 44^\circ$

10.  $A = 17^\circ$   
 $B = 17^\circ$   
 $C = 163^\circ$   
 $D = 163^\circ$   
 $E = 17^\circ$   
 $F = 17^\circ$   
 $G = 163^\circ$

11.  $A = 115^\circ$   
 $B = 65^\circ$   
 $C = 65^\circ$   
 $D = 115^\circ$   
 $E = 115^\circ$   
 $F = 65^\circ$   
 $G = 115^\circ$

12.  $A = 91^\circ$   
 $B = 91^\circ$   
 $C = 89^\circ$   
 $D = 89^\circ$   
 $E = 91^\circ$   
 $F = 91^\circ$   
 $G = 89^\circ$