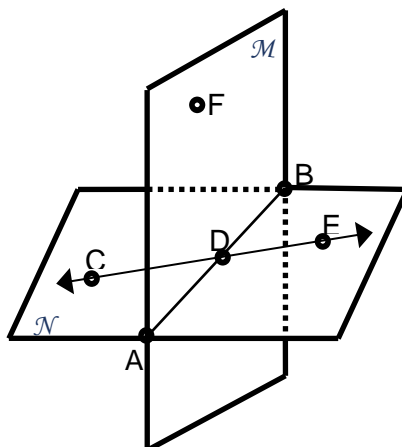


NAME \_\_\_\_\_ DATE \_\_\_\_\_ PER \_\_\_\_\_

**FIRST SIX WEEKS REVIEW**

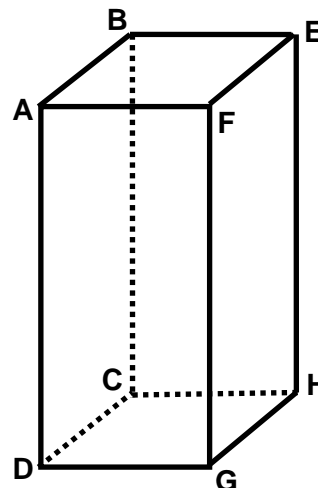
Match the name with its definition. Place letter in first blank. Then use the picture below to give a correct example (with symbols and letters) of that figure in second blank.

1. Point: _____ Ex: _____	A. Points that lie on the same line.
2. Line: _____ Ex: _____	B. Part of a line consisting of one endpoint and extending infinitely in one direction.
3. Line Segment: _____ Ex: _____	C. Rays that share a common endpoint, but continue infinitely in opposite directions.
4. Ray: _____ Ex: _____	D. A flat surface that continues infinitely in all directions.
5. Opposite Rays: _____ Ex: _____	E. Points that lie on the same plane.
6. Plane: _____ Ex: _____	F. An exact location in space with an indefinite shape and size.
7. Collinear: _____ Ex: _____	G. Part of a line consisting of two endpoints and all the points in between.
8. Non-Collinear: _____ Ex: _____	H. An object with no thickness that extends infinitely in two directions.
9. Coplanar: _____ Ex: _____	I. Points that do not lie on the same plane.
10. Non-Coplanar: _____ Ex: _____	J. Points that do not lie on the same line.



Using the figure below, name each of the following:

11. The intersection of BAF and GHE: _____
12. The intersection of CDA and $\overrightarrow{HC}$ : _____
13. A point collinear with G: _____



Using the figure above, tell whether each statement is TRUE or FALSE.

_____	14. A and B are collinear.
_____	15. C, A, D, & F are coplanar.
_____	16. EFG and ABE intersect at E.

**SEGMENT LENGTH - NUMBER LINE**

The numbers given are the coordinates of two points on a number line. Find the distance between the two points.

17. $d =$ _____	-3 and 5
18. $d =$ _____	-11 and -27

**SEGMENT ADDITION**

Given that B is between A and C, find the indicated length.

19. $BC =$ _____	$AB = 5.3$ and $AC = 6.7$ . Find BC.
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If B is between A and C, find the value of 'x' and BC.

<p>20. <math>x =</math> _____  <math>BC =</math> _____</p>	<p><math>AB = 3(x + 7)</math>, <math>BC = 2(x - 3)</math>, and <math>AC = 50</math>.</p>
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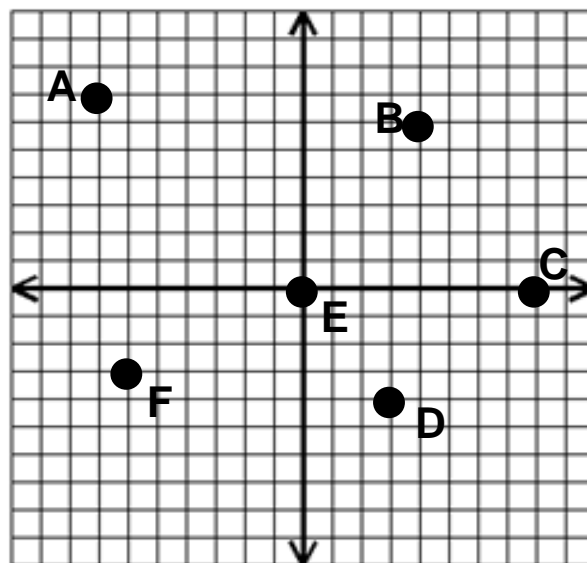
**COORDINATE PLANE \_ DISTANCE FORMULA**

Find the length of the segment formed by connecting the points with the given coordinates. Round answers to the nearest tenth.

<p>21. <math>CD =</math> _____</p>	<p><math>C(-1, 4)</math> and <math>D(-3, -4)</math></p>
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Find the length of each segment indicated below.

<p>22. <math>CE =</math> _____</p>
<p>23. <math>FD =</math> _____</p>



**SEGMENT MIDPOINT – NUMBER LINE**

The numbers given are the coordinates of two points on a number line. Find the midpoint of the segment joining the two points.

<p>24. midpoint: _____</p>	<p>-2 and 6</p>
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**COORDINATE PLANE – SEGMENT MIDPOINT FORMULA**

Find the midpoint the segment formed by connecting each pair of coordinates.

<p>25 midpoint: _____</p>	<p><math>C(-3, 3)</math> and <math>D(-8, -5)</math></p>
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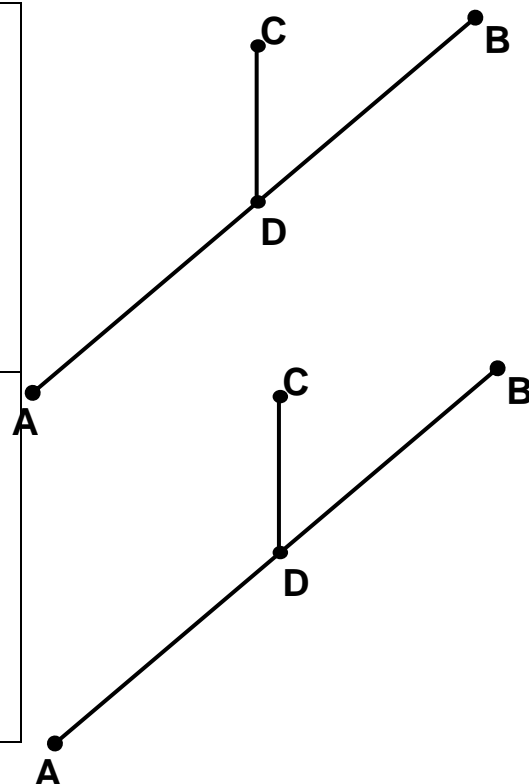
Given that B is the midpoint of  $\overline{AC}$ , find the coordinates of the endpoint indicated.

<p>26. C(_____, _____)</p>	<p>A(-5, 1) and B(-2, 0)</p>
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**SEGMENTS AND BISECTORS**

In the figure below,  $\overline{CD}$  bisects  $\overline{AB}$  at D. For each of the following, find the value of 'x' and the measure of the segment indicated.

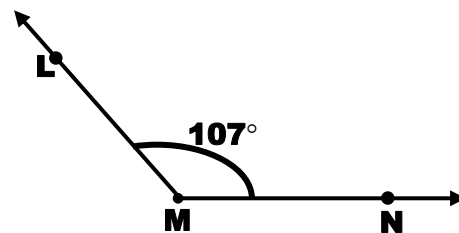
<p>27. <math>x =</math> _____   <math>AB =</math> _____</p>	<p><math>AD = 2x + 11</math>  <math>DB = 4x - 5</math></p>
<p>28. <math>x =</math> _____   <math>AD =</math> _____</p>	<p><math>AB = 5x - 4</math>  <math>DB = x + 1</math></p>



**ANGLE BASICS**

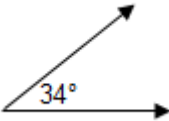
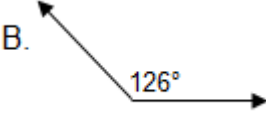


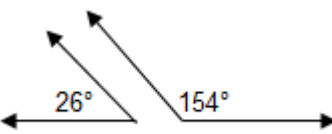
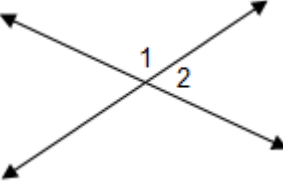
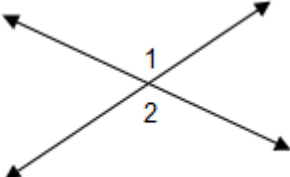
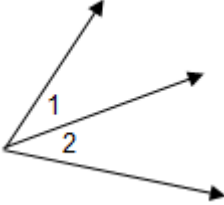
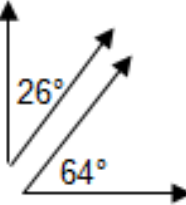
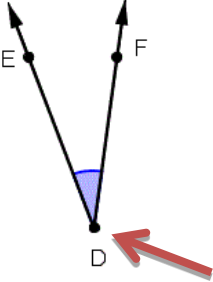
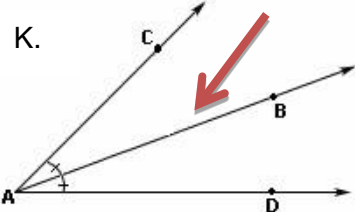
Use the figure below to answer the following questions. Be sure to use appropriate symbols where necessary.

<p>29. _____</p>	<p>Name the angle.</p>
<p>30. _____</p>	<p>Name the vertex.</p>
<p>31. _____</p>	<p>Name the sides.</p>
<p>32. _____</p>	<p>Classify the angle.</p>

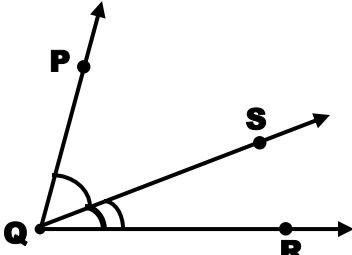
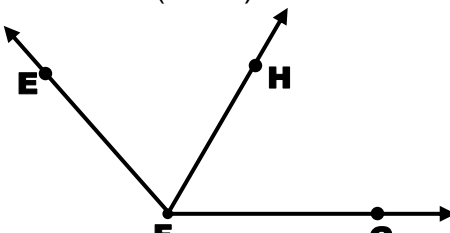


**PART 1. ANGLE TERMS**

Match the term with the picture for each of the following terms.

TERM	PICTURE	
33. ____ Vertex	A. 	B. 
34. ____ Acute Angle	C. 	D. 
35. ____ Adjacent Angles	E. 	F. 
36. ____ Straight Angle	G. 	H. 
37. ____ Linear Pair	I. 	J. 
38. ____ Obtuse Angle	K. 	
39. ____ Vertical Angles		
40. ____ Right Angle		
41. ____ Supplementary Angles		
42. ____ Complementary Angles		
43. ____ Angle Bisector		

Find the measures indicated.

<p>44. <math>x =</math> _____ <math>m\angle SQR =</math> _____</p>	<p><math>m\angle PQR = 87^\circ</math>, <math>m\angle PQS = (5x - 3)^\circ</math>, and <math>m\angle SQR = (2x - 1)^\circ</math></p> 
<p>45. <math>x =</math> _____ <math>m\angle EFG =</math> _____</p>	<p><math>\overrightarrow{FH}</math> bisects <math>\angle EFG</math>. <math>m\angle EFH = (8x - 3)^\circ</math> and <math>m\angle HFG = (4x + 9)^\circ</math>.</p> 

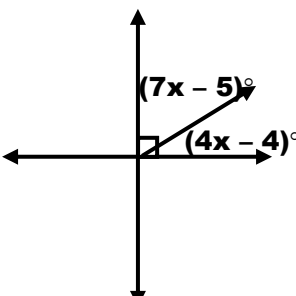
Classify the angles described.

<p>46. _____</p>	<p>An angle with a measure of <math>33^\circ</math>.</p>
<p>47. _____</p>	<p>An angle with a measure of <math>111^\circ</math>.</p>
<p>48. _____</p>	<p>An angle with a measure of <math>89.9^\circ</math>.</p>
<p>49. _____</p>	<p>An angle with a measure of <math>180^\circ</math>.</p>

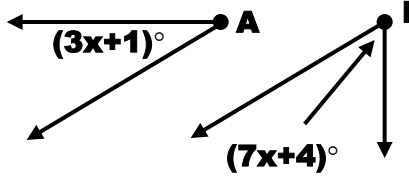
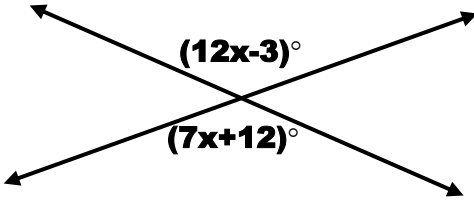
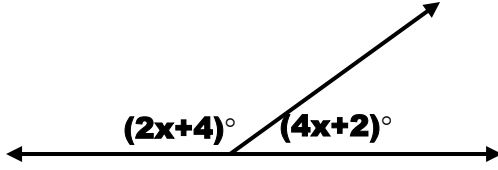
REVIEW #2 PG. 3

**PART 3. SPECIAL ANGLE PAIRS**

Find the value of 'x'.

<p>50. <math>x =</math> _____</p>	
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For each of the following, identify the type of angle pair, and find the measures of the labeled angles.

<p>51. Type: _____ _____</p>	<p><math>m\angle A + m\angle B = 90^\circ</math></p> 
<p>52. Type: _____ _____</p>	
<p>53. Type: _____ _____</p>	

<p>_____ 54.</p>	<p>A pair of complementary angles will add up to _____</p> <p>A. <math>90^\circ</math>          B. <math>180^\circ</math>          C. <math>270^\circ</math>          D. <math>45^\circ</math></p>
<p>_____ 55.</p>	<p>If <math>\angle 1</math> and <math>\angle 2</math> are supplements, with <math>m\angle 1 = (3x + 40)^\circ</math> and <math>m\angle 2 = (3x + 8)^\circ</math>, find the value of 'x'</p>