

1-4 – Pairs of Angles

“I WILL ...

...define pairs of angles through linear pairs and vertical angles.”

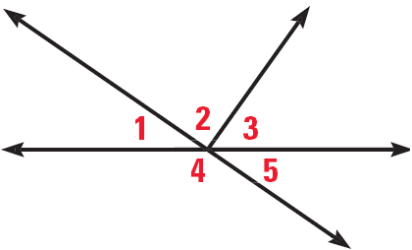
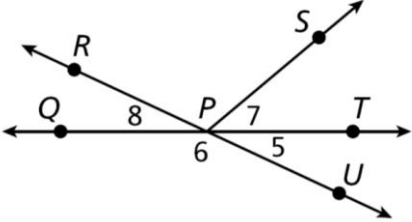
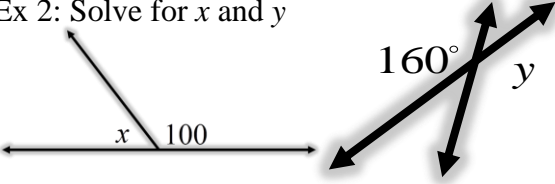
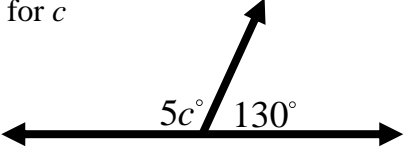
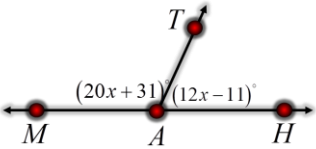
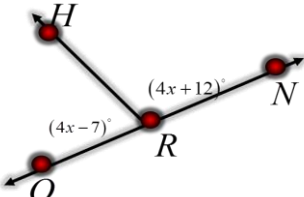
I. Definitions

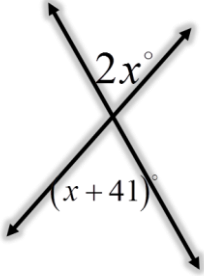
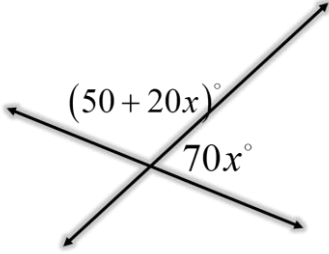
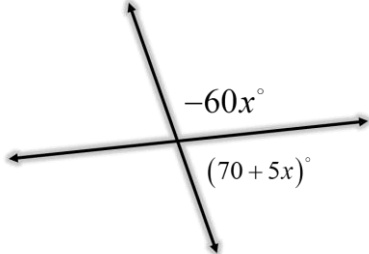
A. \_\_\_\_\_ are two angles in the same plane; Think: NEXT TO

1. Share the common side
2. Have the Same Vertex
3. Have no interior points
4. Are Coplanar

B. \_\_\_\_\_ of angles is a pair of adjacent angle whose non-common sides are opposite rays; they are supplementary; Think: L

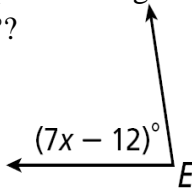
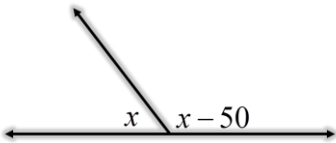
C. \_\_\_\_\_ are two angles sides form two pairs of \_\_\_\_\_ rays; Think: VA

<p>Ex 1: Identify all of the vertical angles, adjacent angles, and linear pairs of angles in the figure.</p>  <p>VA: _____</p> <p>AA: _____</p> <p>LP: _____</p>	<p>Your Turn: Identify all of the vertical angles, adjacent angles, and linear pairs of angles in the figure.</p>  <p>VA: _____</p> <p>AA: _____</p> <p>LP: _____</p>
<p>Ex 2: Solve for <math>x</math> and <math>y</math></p> 	<p>Ex 3: Solve for <math>c</math></p> 
<p>Ex 4: Solve for <math>x</math> and <math>m\angle MAT</math></p> 	<p>Your Turn: Solve for <math>t</math> and <math>m\angle HRN</math></p> 

<p>Ex 5: Solve for <math>x</math></p> 	<p>Ex 6: Solve for <math>x</math></p> 	<p>Your Turn: Solve for <math>x</math></p> 
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II. Type of Angles

- A. \_\_\_\_\_ are two angles whose measures have a sum of  $90^\circ$ ;  
Think: \_\_\_\_\_ angles make a CORNER
- B. \_\_\_\_\_ are two angles whose measures have a sum of  $180^\circ$ ;  
Think: \_\_\_\_\_ angles make a STRIGHT LINE

<p>Ex 7: What is the complement and supplement angle of <math>81.2^\circ</math>?</p> <p>C: _____ S: _____</p>	<p>Ex 8: What is the complement and supplement angle of <math>(7x - 12)^\circ</math>?</p>  <p>C: _____ S: _____</p>	<p>Your Turn: What is the complement and supplement angle of <math>(6x + 5)^\circ</math>?</p> <p>C: _____ S: _____</p>
<p>Ex 9: An angle is <math>50^\circ</math> smaller than its supplement. Find the two angles.</p> 	<p>Ex 10: An angle is <math>48^\circ</math> less than one-third its supplement. Find the two angles.</p>	
<p>Ex 11: An angle is triple its supplement. What is the angle?</p>	<p>Your Turn: An angle is <math>26^\circ</math> less than one-fourth its supplement. Find the two angles.</p>	