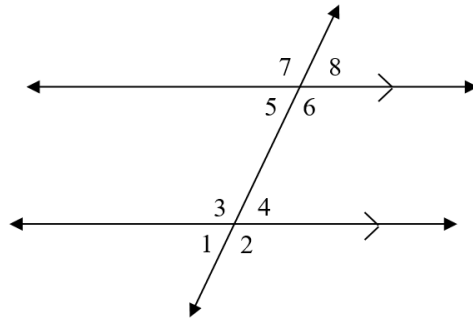


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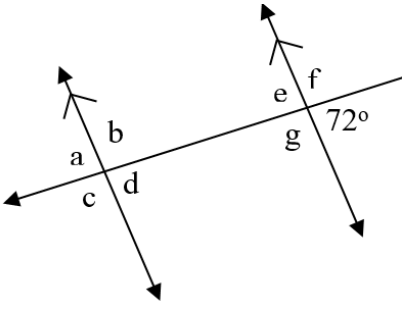
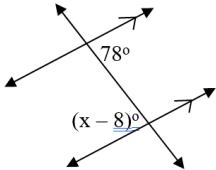
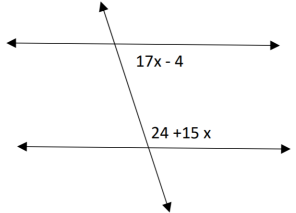
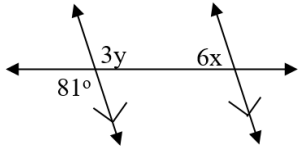
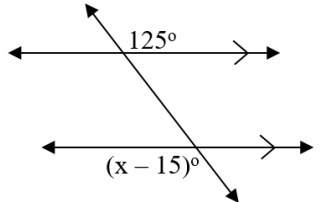
**Angles Formed by Parallel Lines and Transversals Notes**



**If two parallel lines are cut by a transversal, then the ...**

	Vertical Angles	... _____. <b><u>Angle Pairs:</u></b> _____ _____
	Corresponding Angles	... _____. <b><u>Angle Pairs:</u></b> _____ _____
	Alternate Interior Angles	... _____. <b><u>Angle Pairs:</u></b> _____ _____
	Alternate Exterior Angles	... _____. <b><u>Angle Pairs:</u></b> _____ _____
	Same-Side Interior Angles	... _____. <b><u>Angle Pairs:</u></b> _____ _____
	Same-Side Exterior Angles	... _____. <b><u>Angle Pairs:</u></b> _____ _____

# Solving for Missing Angle Measures on Transversals Using Equations

<p><b>Example 1</b></p>  <p>Find a, b, c, d, e, f, g, and name each angle pair.</p>	<table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 50%; text-align: left;">Angles</th> <th style="width: 50%; text-align: left;">Name of Angle Pairs</th> </tr> </thead> <tbody> <tr> <td><math>\angle a \cong \angle d</math></td> <td>_____</td> </tr> <tr> <td><math>\angle a \cong \angle e</math></td> <td>_____</td> </tr> <tr> <td><math>\angle b</math> &amp; <math>\angle e</math></td> <td>_____</td> </tr> <tr> <td><math>\angle a</math> &amp; <math>\angle f</math></td> <td>_____</td> </tr> <tr> <td><math>\angle b \cong \angle g</math></td> <td>_____</td> </tr> <tr> <td><math>\angle c \cong \angle f</math></td> <td>_____</td> </tr> <tr> <td><math>\angle c</math> &amp; <math>\angle d</math></td> <td>_____</td> </tr> </tbody> </table>	Angles	Name of Angle Pairs	$\angle a \cong \angle d$	_____	$\angle a \cong \angle e$	_____	$\angle b$ & $\angle e$	_____	$\angle a$ & $\angle f$	_____	$\angle b \cong \angle g$	_____	$\angle c \cong \angle f$	_____	$\angle c$ & $\angle d$	_____
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<p><b>Example 2</b></p> <p>Solve for x and identify the angle pair</p> 	<p>Name of Angle Pair: _____ Equation: _____</p>  <p>missing angle measure: _____</p>																
<p><b>Example 3</b></p> <p>Solve for x and identify the angle pair.</p> 	<p>Name of Angle Pair: _____ Equation: _____</p>  <p>missing angle measures: _____</p>																
<p><b>Example 4</b></p> <p>Solve for x and y. Explain.</p> 																	
<p><b>Example 5</b></p> <p>Solve for x and explain.</p> 	<p>Name of Angle Pair: _____ Equation: _____</p>  <p>missing angle measure: _____</p>																