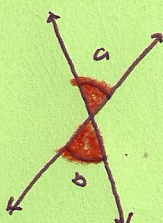
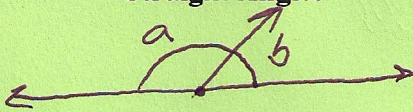
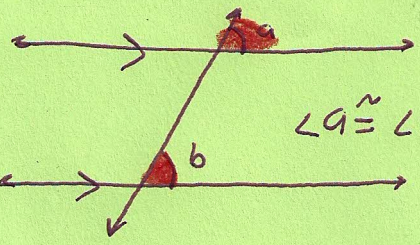
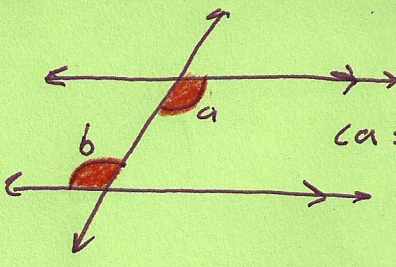
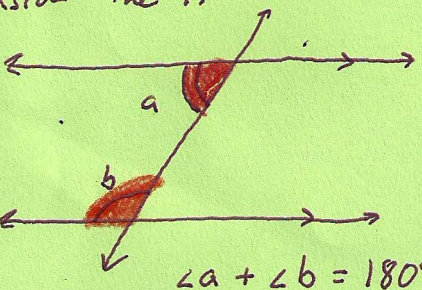
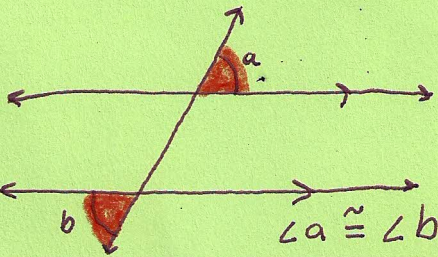


## Angle Relationships Toolkit

In the space below, describe what you know about these geometric angle relationships. Be sure to include what you know about the relationship of their angle measures (such as are they ever supplementary? If so, when?). Include a diagram.

<p style="text-align: center;"><b>Vertical Angles</b></p> <ul style="list-style-type: none"> <li>• Opp <math>\angle</math>s of an intersection are <math>\cong</math></li> </ul>  <p style="text-align: center;"><math>\angle a \cong \angle b</math></p>	<p style="text-align: center;"><b>Straight Angles</b></p>  <p style="text-align: center;"><math>\angle = 180^\circ</math></p> <p style="text-align: center;"><math>\angle a + \angle b = 180^\circ</math></p>
<p style="text-align: center;"><b>Corresponding Angles</b></p> <ul style="list-style-type: none"> <li>• 2 <math>\angle</math>s on same side of transversal and parallel lines.</li> </ul>  <p style="text-align: center;"><math>\angle a \cong \angle b</math></p>	<p style="text-align: center;"><b>Alternate Interior Angles</b></p> <ul style="list-style-type: none"> <li>• 2 <math>\angle</math>s on opp sides of transversal and inside the // lines.</li> </ul>  <p style="text-align: center;"><math>\angle a \cong \angle b</math></p>
<p style="text-align: center;"><b>Same-Side Interior Angles</b></p> <ul style="list-style-type: none"> <li>• 2 <math>\angle</math>s same side of transversal and inside the // lines</li> </ul>  <p style="text-align: center;"><math>\angle a + \angle b = 180^\circ</math></p>	<p style="text-align: center;"><b>Alternate Exterior Angles</b></p> <ul style="list-style-type: none"> <li>• 2 <math>\angle</math>s opp. sides of transversal and outside the // lines</li> </ul>  <p style="text-align: center;"><math>\angle a \cong \angle b</math></p>