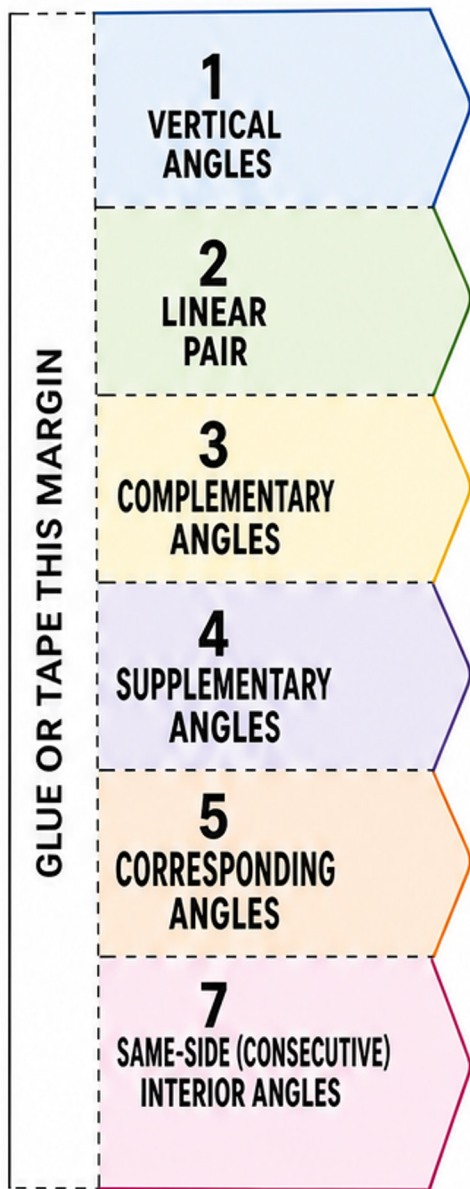
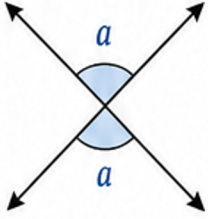
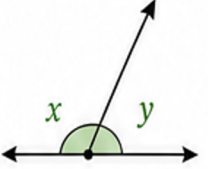
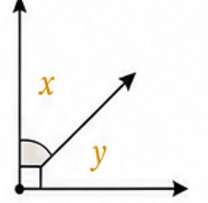
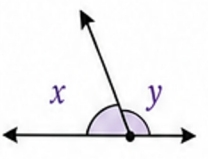
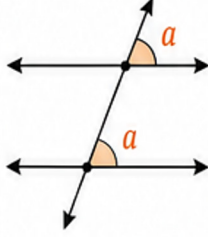
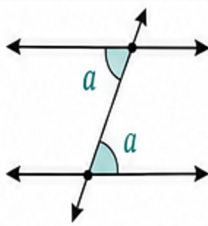
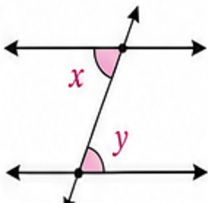


# ANGLE RELATIONSHIPS FOLDABLE REFERENCE

## HOW TO USE

- 1 Cut along the outer solid line.
- 2 Fold along the dashed lines to create tabs.
- 3 Glue or tape the left margin to your notebook.
- 4 Use as a quick reference when solving problems.



RELATIONSHIP	DEFINITION	DIAGRAM & EXAMPLE
<b>VERTICAL ANGLES</b>	Two angles formed by intersecting lines that are opposite each other. <div style="border: 1px solid black; padding: 2px; display: inline-block;">They are equal.</div>	 Example: $a = 65^\circ$ Vertical angle $a = 65^\circ$
<b>LINEAR PAIR</b>	Two adjacent angles that form a straight line. <div style="border: 1px solid black; padding: 2px; display: inline-block;">They add to <math>180^\circ</math>.</div>	 Example: $x = 120^\circ$ $y = 60^\circ$ $120^\circ + 60^\circ = 180^\circ$
<b>COMPLEMENTARY ANGLES</b>	Two angles whose measures add to $90^\circ$ . <div style="border: 1px solid black; padding: 2px; display: inline-block;">They add to <math>90^\circ</math>.</div>	 Example: $x = 35^\circ$ $y = 55^\circ$ $35^\circ + 55^\circ = 90^\circ$
<b>SUPPLEMENTARY ANGLES</b>	Two angles whose measures add to $180^\circ$ . <div style="border: 1px solid black; padding: 2px; display: inline-block;">They add to <math>180^\circ</math>.</div>	 Example: $x = 75^\circ$ $y = 105^\circ$ $75^\circ + 105^\circ = 180^\circ$
<b>CORRESPONDING ANGLES</b>	Two angles in the same relative position at each intersection when a transversal cuts two lines. <div style="border: 1px solid black; padding: 2px; display: inline-block;">They are equal.</div>	 Example: $a = 110^\circ$ Corresponding angle $a = 110^\circ$
<b>ALTERNATE INTERIOR ANGLES</b>	Two angles inside the parallel lines on opposite sides of the transversal. <div style="border: 1px solid black; padding: 2px; display: inline-block;">They are equal.</div>	 Example: $a = 70^\circ$ Alternate interior angle $a = 70^\circ$
<b>SAME-SIDE (CONSECUTIVE) INTERIOR ANGLES</b>	Two angles inside the parallel lines on the same side of the transversal. <div style="border: 1px solid black; padding: 2px; display: inline-block;">They add to <math>180^\circ</math>.</div>	 Example: $x = 65^\circ$ $y = 115^\circ$ $65^\circ + 115^\circ = 180^\circ$

**KEY VOCABULARY:** angle, vertex, side, intersect, adjacent, opposite, parallel, transversal, interior, exterior