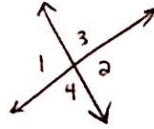


Wed / Thursday

### VERTICAL ANGLES

Two angles **across** from each other on intersecting lines. They are always **congruent!**

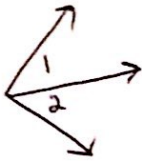
Example:  
 $\angle 1 \cong \angle 2$   
 $\angle 3 \cong \angle 4$



### ADJACENT ANGLES

Two angles that are **next to** each other and share a common side.

Example:



### LINEAR PAIR

Two angles that are **adjacent** and **supplementary**. They form a **straight line!**

Example:



$$\angle 1 + \angle 2 = 180^\circ$$

## ANGLE Relationships

### COMPLEMENTARY ANGLES

Any two angles whose **sum is  $90^\circ$**

Example:

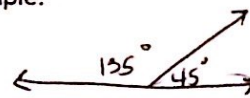


$$\angle 1 + \angle 2 = 90^\circ$$

### SUPPLEMENTARY ANGLES

Any two angles whose **sum is  $180^\circ$**

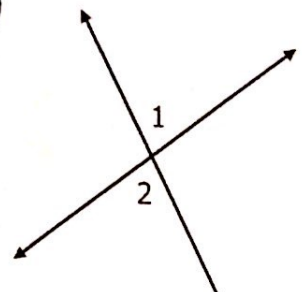
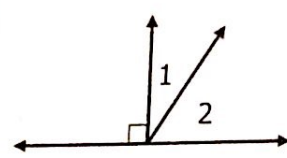
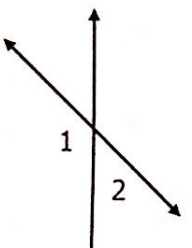
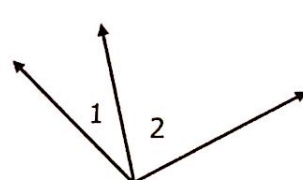
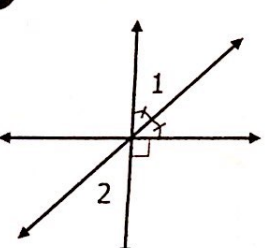
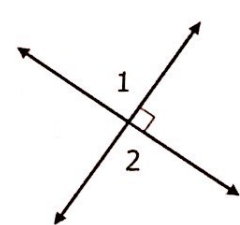
Example:



$$135 + 45 = 180$$

~~Identifying~~

**Identifying Types of Angles:** Check all relationships between  $\angle 1$  and  $\angle 2$ .

<p><b>1</b></p>  <ul style="list-style-type: none"><li><input type="checkbox"/> Adjacent</li><li><input checked="" type="checkbox"/> Vertical</li><li><input type="checkbox"/> Complementary</li><li><input type="checkbox"/> Supplementary</li><li><input type="checkbox"/> Linear Pair</li></ul>	<p><b>2</b></p>  <ul style="list-style-type: none"><li><input checked="" type="checkbox"/> Adjacent</li><li><input type="checkbox"/> Vertical</li><li><input checked="" type="checkbox"/> Complementary</li><li><input type="checkbox"/> Supplementary</li><li><input type="checkbox"/> Linear Pair</li></ul>
<p><b>3</b></p>  <ul style="list-style-type: none"><li><input checked="" type="checkbox"/> Adjacent</li><li><input type="checkbox"/> Vertical</li><li><input type="checkbox"/> Complementary</li><li><input checked="" type="checkbox"/> Supplementary</li><li><input checked="" type="checkbox"/> Linear Pair</li></ul>	<p><b>4</b></p>  <ul style="list-style-type: none"><li><input checked="" type="checkbox"/> Adjacent</li><li><input type="checkbox"/> Vertical</li><li><input type="checkbox"/> Complementary</li><li><input type="checkbox"/> Supplementary</li><li><input type="checkbox"/> Linear Pair</li></ul>
<p><b>5</b></p>  <ul style="list-style-type: none"><li><input type="checkbox"/> Adjacent</li><li><input checked="" type="checkbox"/> Vertical</li><li><input checked="" type="checkbox"/> Complementary</li><li><input type="checkbox"/> Supplementary</li><li><input type="checkbox"/> Linear Pair</li></ul>	<p><b>6</b></p>  <ul style="list-style-type: none"><li><input type="checkbox"/> Adjacent</li><li><input checked="" type="checkbox"/> Vertical</li><li><input type="checkbox"/> Complementary</li><li><input checked="" type="checkbox"/> Supplementary</li><li><input type="checkbox"/> Linear Pair</li></ul>