ANGLE Relationships

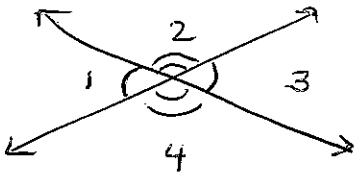
VERTICAL ANGLES

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

Example:

$\angle 1 \cong \angle 3$

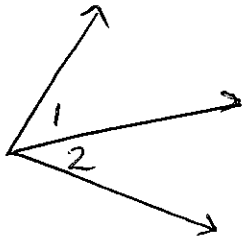
$\angle 2 \cong \angle 4$



ADJACENT ANGLES

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

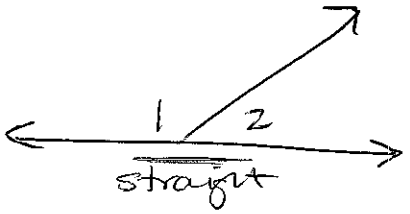
Example:



LINEAR PAIR

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

Example:

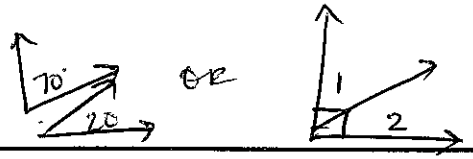


$\angle 1 + \angle 2 = 180^\circ$

COMPLEMENTARY ANGLES

Any two angles whose **sum is 90°**

Example:

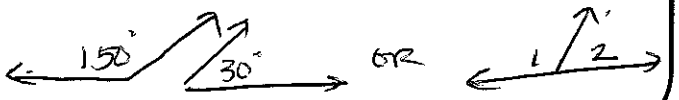


SUPPLEMENTARY ANGLES

S → straight

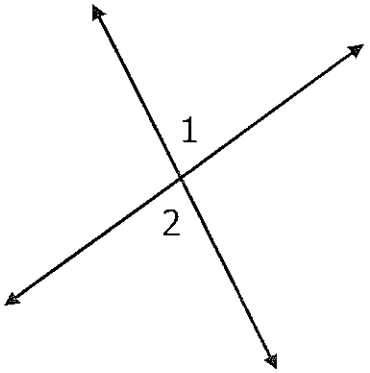
Any two angles whose **sum is 180°**

Example:



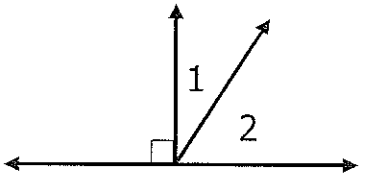
Identifying Types of Angles: Check all relationships between ∠1 and ∠2.

1



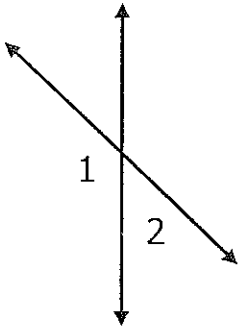
- ☐ ~~Adjacent~~
- ☑ Vertical
- ☐ ~~Complementary~~
- ☐ ~~Supplementary~~
- ☐ ~~Linear Pair~~

2



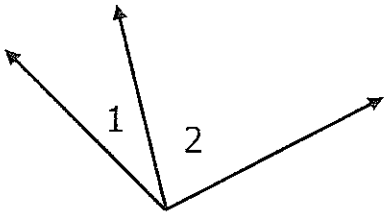
- ☑ Adjacent
- ☐ ~~Vertical~~
- ☑ Complementary
- ☐ ~~Supplementary~~
- ☐ ~~Linear Pair~~

3



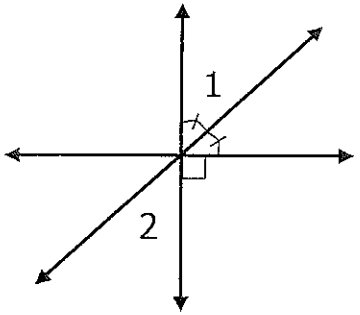
- ☑ Adjacent
- ☐ ~~Vertical~~
- ☐ ~~Complementary~~
- ☑ Supplementary
- ☑ Linear Pair

4



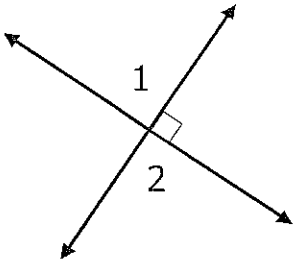
- ☑ Adjacent
- ☐ ~~Vertical~~
- ☐ ~~Complementary~~
- ☐ ~~Supplementary~~
- ☐ ~~Linear Pair~~

5



- ☐ ~~Adjacent~~
- ☑ Vertical
- ☑ Complementary
- ☐ ~~Supplementary~~
- ☐ ~~Linear Pair~~

6



- ☐ ~~Adjacent~~
- ☑ Vertical
- ☐ ~~Complementary~~
- ☑ Supplementary
- ☐ ~~Linear Pair~~