## Tools For Geometry – Angle Pairs Notes Section 1.5

Postulate – A statement that assumed to be true.

Theorem – A statement that can be proved true using established facts.

## PAIRS OF ANGLES

Adjacent Angles – two angles that have the same vertex, share common ray, and have no common interior points.

LIELZ are adjacent

 $\begin{array}{l} \mbox{Complementary Angles}-\mbox{two angles that sum to $90^\circ$}.\\ \mbox{Each angle is called the complement.} \end{array}$ 

IF 21 and 22 are complementing

then mL + mL = 90

Complement Theorem – If the noncommon sides of two adjacent angles form a right angle, then the angles are complementary.



Supplementary Angles – two angles that sum to 180°. Each angle is called the supplement.

IF 21 and 22 are suprementary, then mult mud = 180°

Linear Pair – two adjacent angles whose non-common sides form opposite rays (form a straight angle).



Supplement Theorem – If two angles form a linear pair, then they are supplementary.

1/2 , then LI and LZ are supplementary

tion 1.5 Name\_\_\_\_\_ Vertical Angles - two nonadjacent angles formed by intersecting lines.

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Vertical Angles Theorem: Vertical angles are congruent.







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