





2.2 Geometry.notebook

Conditional	$p \Rightarrow q$	If p, then q. ⇒ if/then "implies"
Converse	$q \Rightarrow p$	If q, then p.
Inverse	not $p \Rightarrow not q$	If it is not p, then it is not q.
Contrapositive	not $q \Rightarrow not p$	If it is not q, then it is not p.
Ex. Conditional: If $\angle A = 100^\circ$, then it is obtuse.		
Converse: If :t :s obtuse, then LA=100.		
Inverse: If LA = 100°, then it is not obtuin.		
$= \frac{1}{100^{\circ}}$		
Contrapositive: If : ti) not obtare, then LA \$100°		
always be tree twether or filie together		

Equivalent Statements - when two statements are both true and false (same truth value) (conditional and contrapositive) (converse and inverse) Biconditional - when a conditional and the converse are both true and a single statement is written Ex. Conditional: If $\angle A = 90^\circ$, then it is a right angle. Converse: If $\angle A$ is a right angle, then it is = to 90°. Biconditional: $\angle A = 90^{\circ}$ if and only if it is a right angle. "iff" = if and only if * All good definitions can be written as a biconditional. *



