

Variations of the Conditional Statement

| Name | Symbolic Form | English Translation |
|----------------|-----------------------------|-----------------------|
| Conditional | $p \rightarrow q$ | If p, then q. |
| Converse | $q \rightarrow p$ | If q, then p. |
| Inverse | $\sim p \rightarrow \sim q$ | If not p, then not q. |
| Contrapositive | $\sim q \rightarrow \sim p$ | If not q, then not p. |

Example 5: Write the converse, inverse and contrapositive of the following statement.
If I am in Birmingham, then I am in the South.