

Twelve ways to say: $p \Rightarrow q$.

- (I) If p , then q .
- (II) If p , q .
- (III) q if p .
- (IV) q when p .
- (V) p is sufficient for q .
- (VI) q is necessary for p .
- (VII) A sufficient condition for q is p .
- (VIII) A necessary condition for p is q .
- (IX) p implies q .
- (X) p only if q .
- (XI) q whenever p .
- (XII) q follows from p .

Try these with some everyday statements. For example:

p : It rains.

p : You get 100% on the final.

p : It is sunny today.

q : WWU's Red Square is wet.

q : You will get an A.

q : We will go to the beach.

Or some mathematical statements:

p : n is a positive integer.

p : A positive integer n is divisible by 9.

p : n is a positive integer.

p : $x^2 < x$

q : $2n^2$ is not a square number.

q : The sum of the digits in n is divisible by

q : $n(n+1)$ is even.

q : $x > 0$ and $x < 1$.