Definition: $f(x,y) = 0$ defines y implicitly as a function of x, domain for those x where there is a unique y s.t $f(x,y) = 0$.

Example: $f(x,y) = xy + x - 2y - 1 = 0$

$$x\frac{dy}{dx} + 1 - 2\frac{dy}{dx} = 0 \iff \frac{dy}{dx} = \frac{1+y}{2-x}.$$