An implicit equation is an equation which relates the variables involved. For example, the equation $x^{2}+y^{2}=4$ gives a relationship between $x$ and $y$, even though it does not specify $y$ explicitly in the form $y=f(x)$.

As this example shows, it may not be possible to convert an implicit equation into an equation of the form $y=f(x)$ for some function $f(x)$, as the $x$ values in the range $-2<x<2$ each correspond to two values for $y$.

