

系所：_____ 學號：_____ 姓名：_____ (3/27)

Suppose that n is an integer. Prove that if n^2 is odd, then n is odd..

Sol. It is equivalent to prove that if n is even, then n^2 is even.

When n is even, say $n = 2k$, we have $n^2 = 4k^2$ even.