4. Every odd natural number is one of the forms 4n + 1 or 4n + 3, where n is an integer.

Proof:

```
Every odd number is of the form 2k+1 where k is an integer.
If k is even, then k=2n. Substituting into 2k+1 gives 2(2n)+1=4n+1.
If k is odd, then k=2n+1. Substituting into 2k+1 gives 2(2n+1)+1=4n+2+1=4n+3.
```

Therefore, every odd number can be expressed as 4n + 1 or 4n + 3, where n is an integer.