We will divide the problem in 2 sub problems:

1. For the even numbers
2. For the odd numbers

Case 1:

If we set (this is a natural number), and b = 0 then we get:

Conclusion for even numbers: All sets

Case 2:

Set , and now solve the following equation:

(can you see what this equation means? ☺)

So our final equation is:

Conclusion for odd numbers: All sets

If is a natural number then is also a natural number.

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