

consider as our m and n .

Now consider two integers ~~as~~ a and b , we know from our lecture notes that succ-left -

$$\text{succ}(b) + a == \text{succ}(b+a)$$

$$\text{and } \text{succ}(a) + b == \text{succ}(b+a)$$

Therefore, just like before, we can equate

$$\text{succ}(b) + a == \text{succ}(a) + b$$

Therefore, using these theorems we have proved that $m+n == n+m$