Q.1

Prove (3mEN)(3m+5n=12)

Proof: Assume 3m+5n=12 and JnneN.

Then, 3m+5n=3*4.

By rearranging, 5n=3(4-m).

Since n is natural, 5n is also natural. Thus, 3(4-m) is natural. In order for 3(4-m) to be natural, my MK4 and mexion

By Addition, 5n = 3.4 - 3M+ 4 > M

5n+4>12-2M.

By Algebra, 51+2M>12+4.

By Addition, 5n+2m>12+4 - (5n+3m+12)

-m>4

By Addition, $\frac{AA}{4-M>4+m}$

-) Subrocking both sides by

4,

-M>M.

Divide both sides by M.

-121

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Thus, the Statement is not True.

QED M