1. True or False ( ]m EN) (]n EN) (3m+5n=12) (False.) Suppose the above statement is true, that is there exists such mand n so that 3mt=12. Since m, n 71, we can have x, y such that x=m-1, y=n-1. where 9x62/x209. {y62/y20} and sertisfies 3x + 5y = 4, then we have X = 4-54 3. Since x 20. we must have y=0, thus  $X=\frac{4}{3}$ , which contradicts with the fact that x being an integer, thus
the above statement is take.