Assignment - 3

① Ex. 4.1 Problem 10

T.P.: There is an integer n such that $2n^2 - 5n + 2$ is prime.

Proof: $2n^2 - 5n + 2 = 2n^2 - 4n - n + 2$

4 = 2n(n-2) - 1(n-2) = (2n-1)(n-2)

 $\frac{m-2}{m-3}$

Disprove by counterey.

For all integers men, if 2m+n is odd then men are both odd.

Proof: if m=2 & n=1 2m+n=2(2)+1=5Now 2m+n is odd but m is even. (So it implies that n is odd).

(3) Ex 4.1. Problem 27:
T.P.:- Sum of any two odd integers is even.

Let n = 2no+1

8, m = 2mo+1

: n+m = 2no+2mo+2

= 2(no+mo+1)

= 2(integer)

= even ____ by definition