Oviz - 3

1- Prob5:

We assume, n is postive integer (hypothesis)

let n= 2k (k & integer)

 $\rightarrow \frac{3}{12} + \frac{2}{12}$ =  $(2k)^{3} + 2(2k)^{2}$ 

= 8K3+2(4K2)

= 8K3+ 8K2

= 2 (4K + 4K2)

= 2(21) where x= 4K3+4K2

N3+2N2=2X

conclusion: even -> IF N is Bostive integer there. Thun N3+2n2 is also even integer.

2- Bropp	Hold
If x2=9, then 8how 121 > 3	
lets suprose 1x1 <3 on the	ned real
then either NC3 or M2-3  If NC3 then x2<9	20 - 1/2/
IF NJ-3 than n2c9	
So If x < 3 or x>-3 the	
contradiction, Hence (N)?	le have
So its proved that it is	39
None stanffy	

11000	a grant to
let's assume the conclusion,	Statement is false
IF x3+4x2+6x+24=0	then n=-4 15 false
Let's assume $x \neq 4$ Then: $x^{3} + 4x^{2} + 6x + 24$ $x^{2} (x+4) + 6(x+4)$ $(x^{2} + 6)(x+4)$	- <b>4</b> )
So, $(n^2+6)(n+4) \neq 0$ We have proved that IF $n$	to sero;