

6) -1, +4, +9, +

a = -1 (i) +66 = a + (n-1) d

 $d=5 = -1 + (59 \times 5)$ 

-: T60 = 294

(i) Sn= 2(a+c)

\$6= 60 (-1+294)

esa= \$190: 560 = 8790

(b) P= 100 (1.23)+

P=100eaf

P= 100e (13)f

= 1.23.100 e (1.23)f

= 100.1.23)f

· a= 1.23



BOARDOF STUBIES
(c) $y = x^3 + x^2 - x + 2$
(1) 人
stat points, when one so (0,2) Hours
dy = 3x2+2x-1
$30c^2 + 20c - 1 = 0$ $+$ $6$
(3x - 1)
$(x) \frac{\partial^2 y}{\partial x} = 6x + 2$
(ach depermined from (onger at grouph)  orce numbers obtained)
$(1 1 \frac{22}{2}) (-13)$
$\frac{3}{329} \times 30 \text{ i.m.}$ $\frac{3}{39} \times 10 \text{ max}$ $\frac{3}{127} \times 10^{-1} \times 10$
27 + 9 1 - 3 + 2
7
(i) Icurre concare up from point of inflection till next turning point
point of implection = 6x +2 =0
6x = -2
.:x = -1 :14= 2 = 1
675, "convainity changes at >c=- } , & becomes concar
up. Therefore the cume i's concare up for values > - }.
(11) De3 +De2-x+2 = k
of the hos real solution when h=64, 137, 3) and points of points
P.T.O OF Inflorchian.

01WB4