ARB OF STUDIES

to -1 + 4 + 9 + ... Q $T_n = a + (n-1) d$ n=60 d-5 Q = $T_{60} = -1 + (60 - 1)5$ 1 . 95 -1+ 294 2 the 60th term = 294 NZ 1 2at(n-1) d d=5 =60 a=-1 60 + (60-1)5 2 Sun= + 295 Ξ (24 ĩ 3 879/1 $1.23t = e^{2}$ 23:0' 10 0.452491712

R D O F S T U D I E S j. y=x3+x2-x+Z = 3x2+2x-1 x - 1 / (3x + 3) = 0x-3 +2 $\xi(\chi+1) = 0$ $(3\chi - 1)$ 3 and · * · r H 3 4 ~ . (6) = RPoint for $y = (-1)^3 +$ $(-1)^2 - (-1) + 2$ -17 Point (-1 3 = 32 + 2% = 6x+2 for point (1/3,21/6) y"=6(1/3)+2=4 ->>0 MINIMUM TURNING PT. for point (-1, 3), y"= 6(-1)+Z=-4 -> < 0 -> - CONCAUE nown MAXIMUM CONCAVE UP 01WB4

BOARD OF STUDIES 50, paint A is concave up, with x=-1 $iii \cdot \chi^3 + \chi^2 - \chi + Z = k$ $\frac{8m}{2(x^{2}+x-1)+2=k}$ $\frac{\chi(x)}{\chi(x)+2=k}$ $3x^{2}+x-1=k$ 3