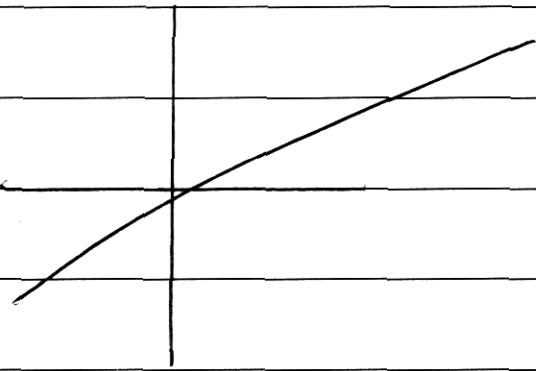
BOARD OF STUDIES
NEW SOUTH WALES

29a) i)



ii) $A \doteqdot \frac{h}{3}[y_f + y_l + 4y_m)$

$= \frac{2/3}{3}[$

b) $A = P\left(1 + \frac{r}{100}\right)^n$

1st year $A = \$5000\left(1 + \frac{8.75}{100}\right)^1 = \$5000.0875$

2nd year $A = 5000\left(1 + \frac{8.75}{100}\right)^2$

20th year $A = 5000\left(1 + \frac{8.75}{100}\right)^{20} =$

$= \$26764.26$

$S_n = \frac{a + (n-1)^n}{1 - r}$

$= \frac{5000.0875 + (20-1)^{8.75}}{1 - 8.75}$