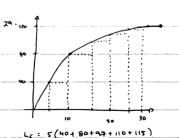


31. b. The area is a result of multiplying the x-axis by the y-axis. Therefore, in this case:

deaths day = deaths

$$\lim_{n\to\infty}\sum_{i=1}^{n}\left[\left(3+\frac{6}{n}i\right)^2+1\right]\left(\frac{6}{n}i\right)$$



b-a=6 $f(x) = x^2+1$ a=3 :. b=9 : $\int_3^9 (x^2+1) dx$

Ax= 2, Midpoints at x= 4,6,8

note

= 2210 km . h

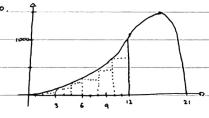
40. The area under the curve of \sqrt{x} between 0 and 1

= 0.613 Km

44. Difference between largest vieman

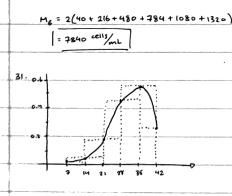
ond smallest vieman should vesult

in the difference in the two vieman



1 = 1 = 50

$$\frac{36}{50} - \frac{16}{50} = \frac{2}{5} = \boxed{0.4}$$



A B C

 $A = \frac{1}{2} (3+9) (3) = 24$ $B = \frac{1}{2} (9+k)(3) = \frac{3}{2} k + \frac{23}{2}$

24+ 3k+ 27 +k+11 = 61

K=5

a. M. L6 = 7 (0,0079 + 0.0638 + 0.1944 + 0.4435 + 0.5620 + 0.4630)

R6 = 7 (0.0638 + 0.1944 + 0.4475 + 0.5620 + 0.4630+ 0.2597)

. 43. The given under the curve of x243 from 1,3

144. a. $\frac{\lim_{n\to\infty}\sum_{i=1}^{n}\left(\frac{i}{n}\right)^{3}\left(\frac{1}{n}\right)}{\text{Devived from where a=0 and b=1}}$ $\lim_{n\to\infty}\sum_{i=1}^{n}\left(\frac{b-a_{i}}{n}\right)\left(f\left(a+\frac{(b-a)_{i}}{n}\right)\right)$