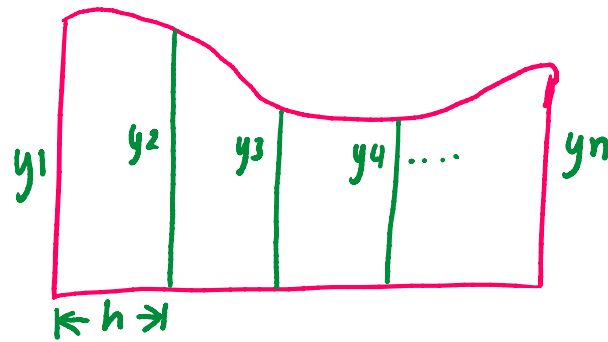


Used to find the approximate area of an irregular shape

Pg 12
Log tables

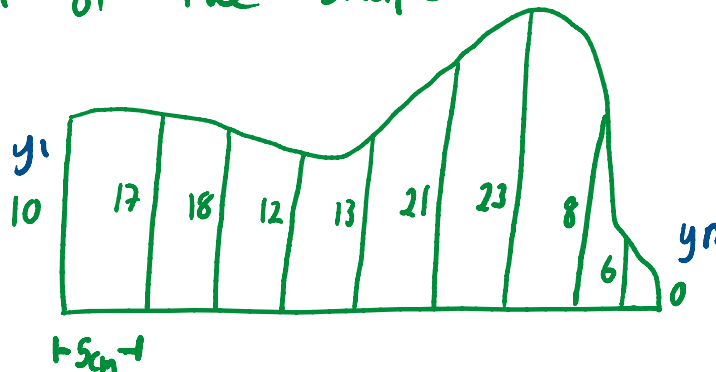
Note y = height
 h = width



$$\text{Area} = \frac{h}{2} [y_1 + y_n + 2(y_2 + y_3 + y_4 + \dots + y_{n-1})]$$

Formula in words = $\frac{\text{width}}{2} [\text{First height} + \text{last height} + 2(\text{sum of all other heights})]$

(eg1) Use the trapezoidal rule to find the area of the shape



$$\text{Area} = \frac{5}{2} [10 + 0 + 2(17 + 18 + 12 + 13 + 21 + 23 + 8 + 6)]$$

Calculator

$$\text{Area} = 615 \text{ cm}^2$$

H/W Pg 268 Q1