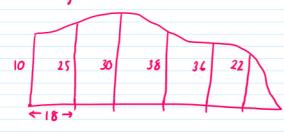


Q1) The shelfch shows a lake bounded on one side by a straight dam



use the trap rule to estimate the area of the late
 A = 18/2 [10+0+2(25+30+38+36+22)] = 2808 m²

 if the late contains 15,000m³ of water calculate the
 average dept of the water in the late to the nearest m.

Volume = Area x Dept

$$15,000 \text{m}^3 = (2808) D$$
 $D = \frac{15,000}{2868} = 5.34$
 $= 5 \text{m} 0 \text{ept}.$

 $Area = \frac{12}{2} \left(0 + 35.5 + 2 \left(22 + 15.5 + 31 + 25.5 + 22.6 \right) \right) = 16/2.2 \text{ m}^2$

2) The land is valued at E280,000 per hectare. Find the value of the piece of land Note: 1 hectare = 10,000 m² <u>1612.2</u> × 280,000 - E45141.6

Using the trap rule when missing a width (h) or a height (y)

13 13 9 12 16 23 (18)q

The area of the guen shape is estimated to be 732 cm² Fund X. in cm.

 $732 = \frac{x}{2} \left(0 + 0 + 2 \left(6 + 13 + 13 + 9 + 12 + 16 + 23 + 18 + 9 \right) \right)$ Calc. $732 = \frac{\chi}{2} \left(238 \right)$ m_{u} multiply 1464 = x(238)1464 = X 238 6.15 m =X