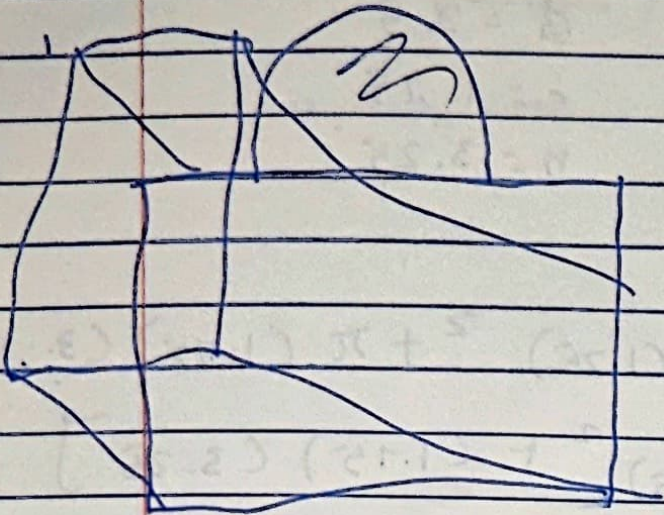


Session - 2



$$\begin{aligned} S_1 &= R_1 + R_2 \\ &= (a^2 - \pi r^2) + (2\pi r^2) \\ &= a^2 + \pi r^2 \end{aligned}$$

$$S = 5^2 + \pi (2.1)^2$$

$$S = 25 + \frac{22}{7} \left(\frac{21}{10} \right) \left(\frac{21}{10} \right)$$

$$S = \frac{25 + 22(63)}{100}$$

$$S = 25 + 13.86$$

$$S = 38.86 \text{ cm}^2$$

$$S = 25$$

$$\begin{aligned} S_2 &= 5(25) \\ &= 125 \end{aligned}$$

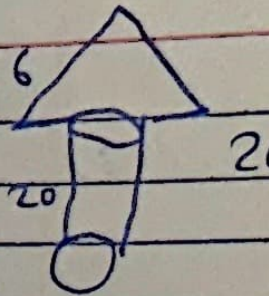
$$TSA = S_1 + S_2$$

$$= 38.86 + 125$$

$$= 163.86 \text{ cm}^2$$

$$2. \quad l = \sqrt{6^2 + 2.5^2}$$

$$l = 6.5$$



$$\Rightarrow \pi r_1 l + (\pi r_2^2 - \pi r_1^2)$$

$$\Rightarrow \frac{22}{7} \times 6.5 \times 2.5 + \left(\frac{22}{7}\right) (2.5^2 - 1.5^2)$$

$$= \frac{22}{7} \left(\frac{65}{10} \times \frac{25}{10} + \frac{22}{7} \times \frac{25}{10} \times \frac{25}{10} - \frac{15}{10} \times \frac{15}{10} \right)$$

$$= \frac{22}{7} \left[\frac{65(25)}{100} + \frac{625 - 225}{100} \right]$$

$$\begin{array}{r} 625 \\ 225 \\ \hline 400 \end{array}$$

$$= \frac{22}{7} \left[\frac{1625 + 400}{100} \right]$$

$$= \frac{22}{7} \left[\frac{2025}{100} \right]$$

=

$$\begin{array}{r} 8.89 \\ 7 \overline{) 62.25} \\ \underline{56} \\ 62 \\ \underline{56} \\ 65 \\ \underline{63} \\ 2 \end{array}$$

Yellow $\Rightarrow 2\pi (1.5)(20) + \pi (1.5)^2$

$$= \pi [2 \times 1.5 \times 20 + 1.5 \times 1.5]$$

$$= \pi [60 + 2.25]$$

$$= \frac{22}{7} \times 62.25$$

$$\begin{array}{r} 62.25 \\ 22 \\ \hline 8. \end{array}$$