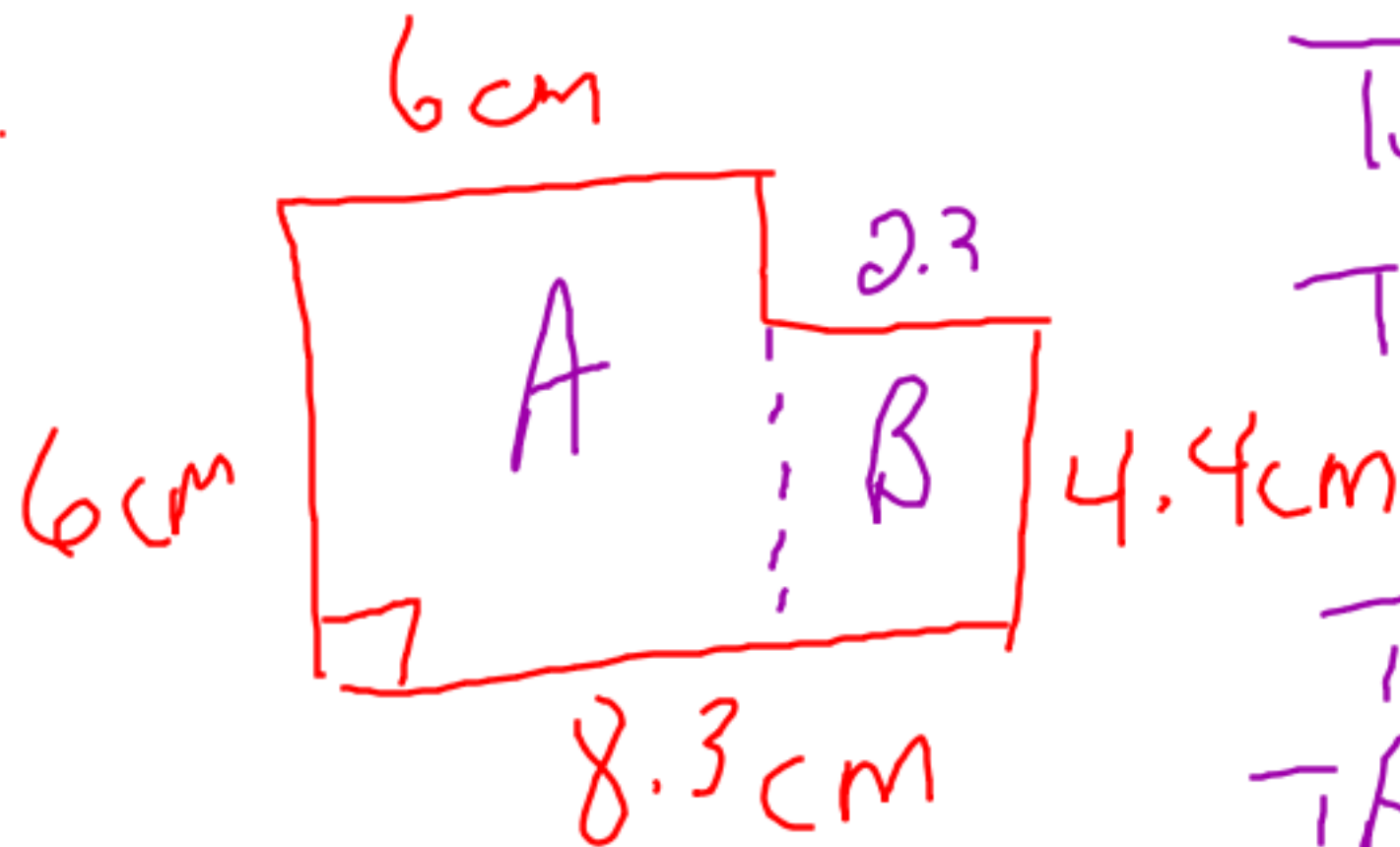


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Areas of Composite Figures

1.



$$\begin{array}{r} 8.3 - 6 \\ = 2.3 \end{array}$$

$$\text{Total Area} = A + B$$

$$\text{T.A.} = L \times w + L \times w$$

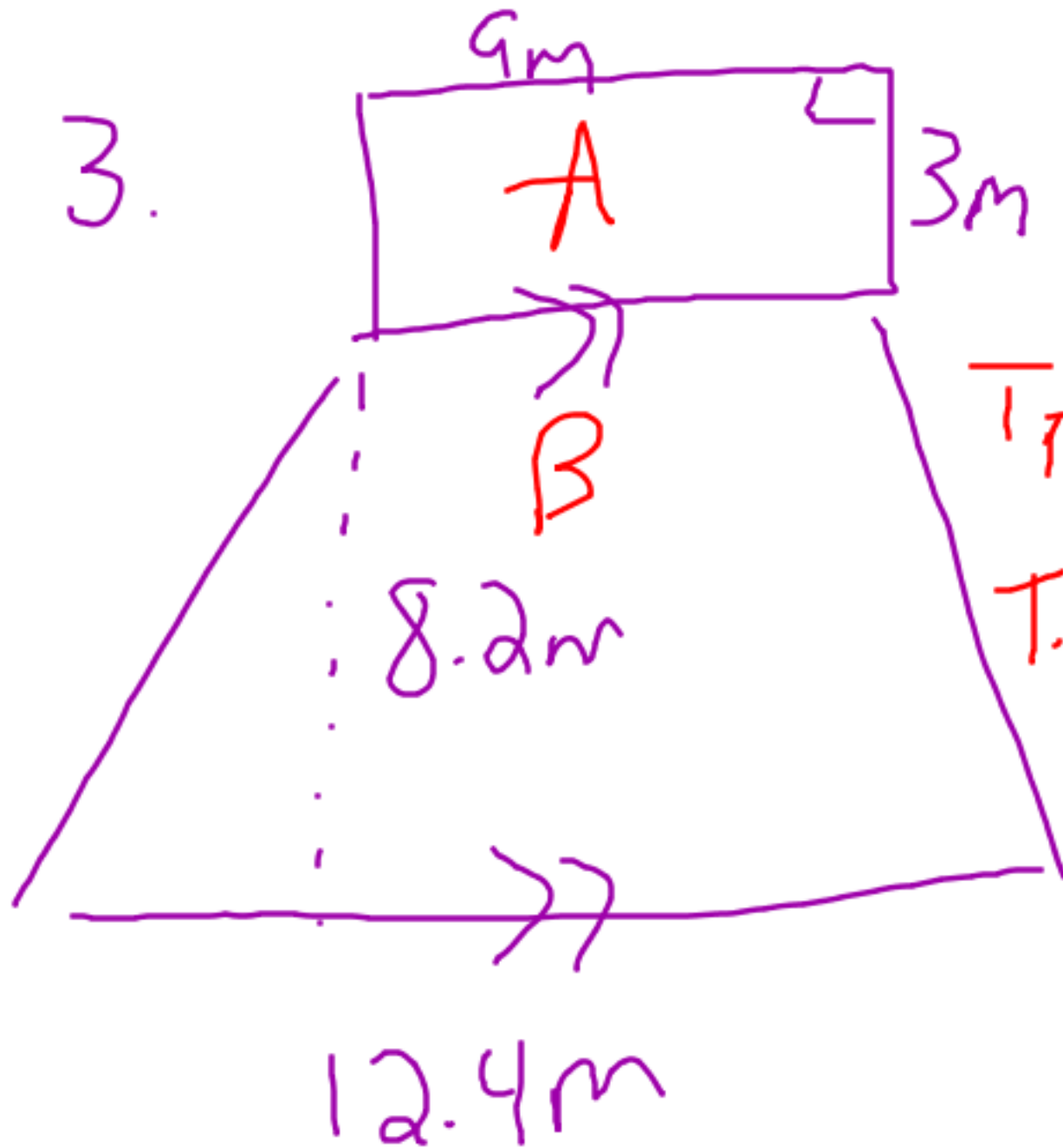
$$\text{T.A.} = (6)(6) + (4.4)(2.3)$$

$$\text{T.A.} = 36 + 10.12$$

$$\text{T.A.} = 46.12$$

$$\text{T.A.} = 46.1 \text{ cm}^2$$

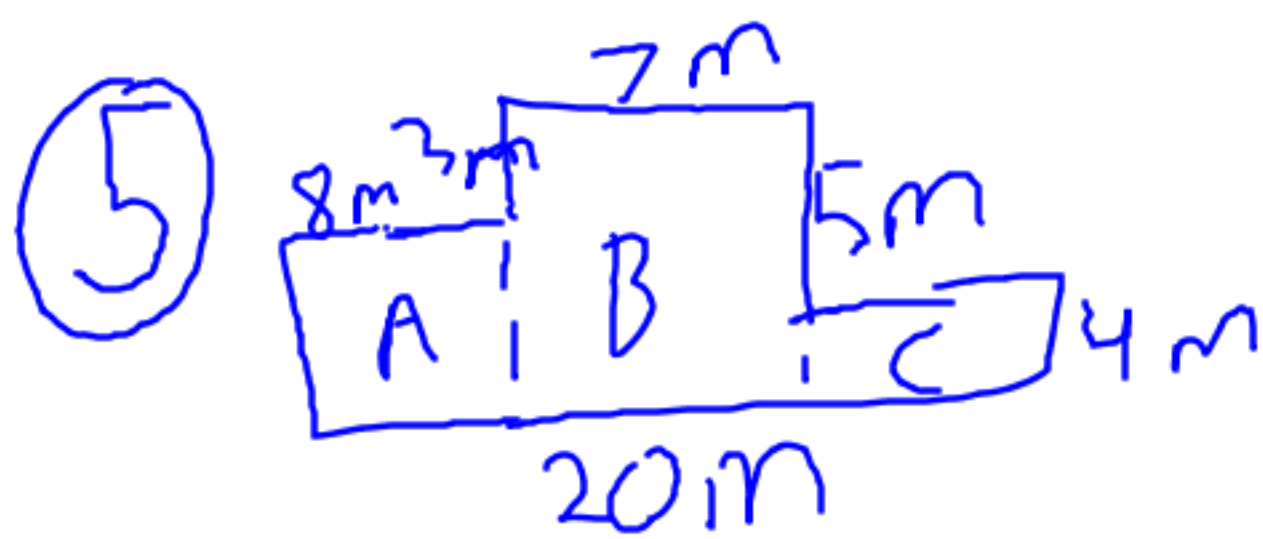
3.



Total Area = A + B

$$T.A. = L \times w + \frac{1}{2}(a+b)h$$

$$T.A. = (9 \times 3) + \frac{1}{2}(9 + 12.4) \times 8.2$$



$$T.A = A + B + C$$

$$T.A = (L \times w) + (L \times w) + (L \times w)$$

$$T.A = (8 \times 3) + (7 \times 5) + (5 \times 4)$$

$$T.A = (48) + 63 + 20$$

$$T.A = 131m^2$$



$$d = 6.2$$

$$r = 3.1$$

$$T.A = 2\pi r^2 + L \times w$$

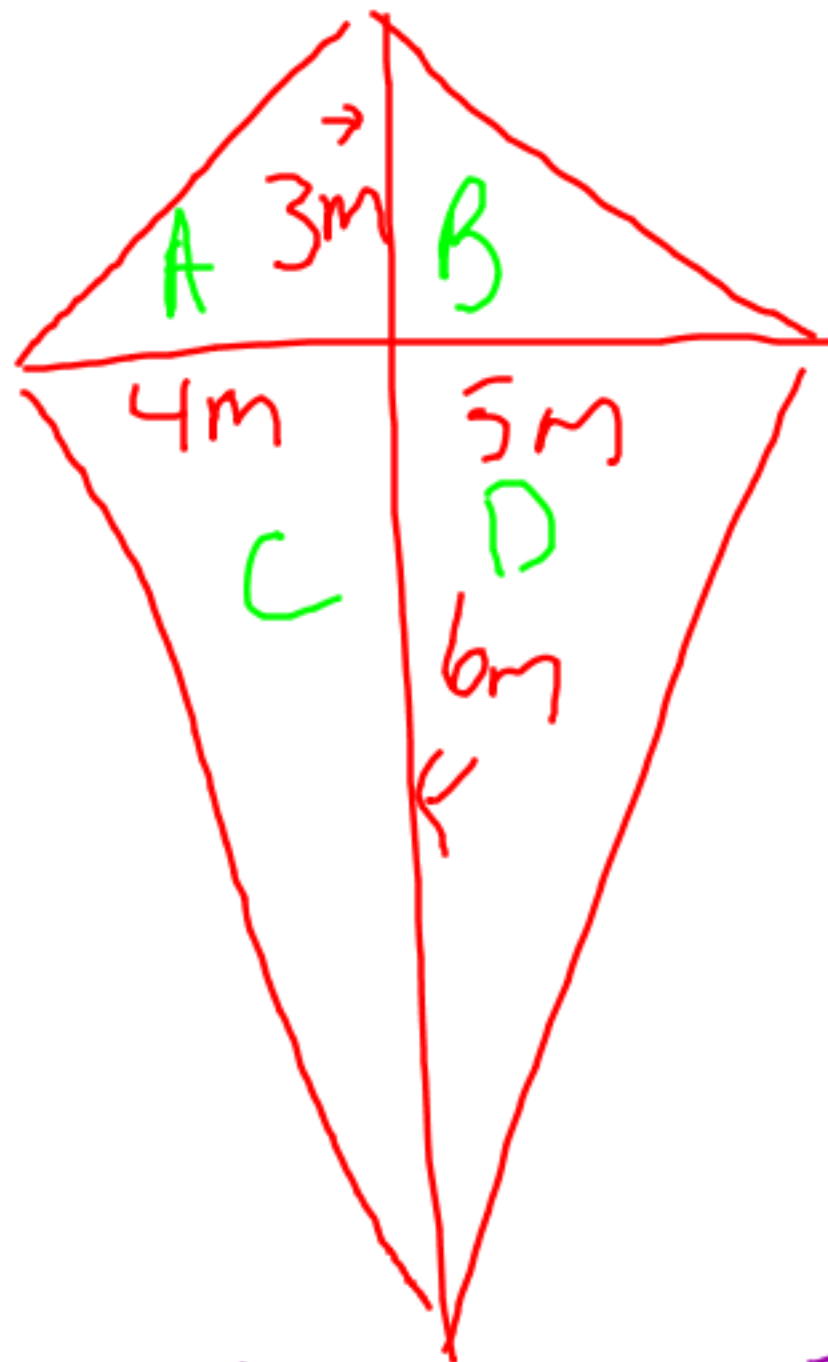
$$T.A = 3.14 (3.1)^2 + (10.5)(6.2)$$

$$T.A = 3.14 (9.61) + (65.1)$$

$$T.A = 30.91 + 65.1$$

$$T.A = 96.01 \text{ cm}^2$$

11.



$$A = \frac{bh}{2}$$

$$T.A. = A + B + C + D$$

$$T.A. = \frac{4(3)}{2} + \frac{5(3)}{2} + \frac{4(6)}{2}$$

$$+ \frac{5(6)}{2}$$

$$T.A. = 6 + 7.5 + 12 + 15$$

$$T.A. = 40.5 \text{ m}$$

14.



Shaded Region: T.A. - Unshaded

$$Sh.R = \frac{(20.2)(14.8)}{2} - \frac{(20.2)(8.6)}{2}$$

$$- 20.2 \text{ cm}$$

$$Sh R = \frac{298.96}{2} - \frac{173.7}{2}$$

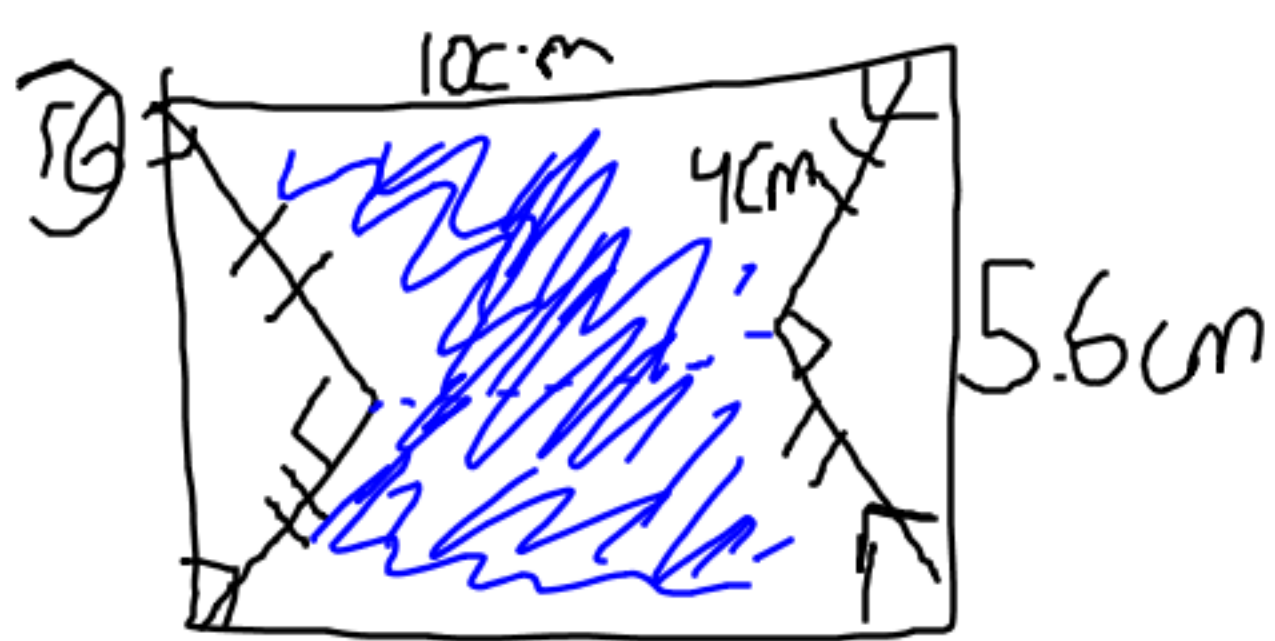
$$\frac{bh}{2}$$

$$Sh R = 144.48 - 86.86$$

$$\frac{2}{2}$$

$$Sh R = 62.6 \text{ cm}^2$$

∴ the area of the shaded region is 62.6 cm²



Shaded region: TA - unshaded region

$$Sh.r = (10 \times 5.6) - (4 \times 4)$$

$$Sh.r = (56 - 16)$$

$$Sh.r = 40 \text{ cm}^2$$



$$\pi \times r^2$$

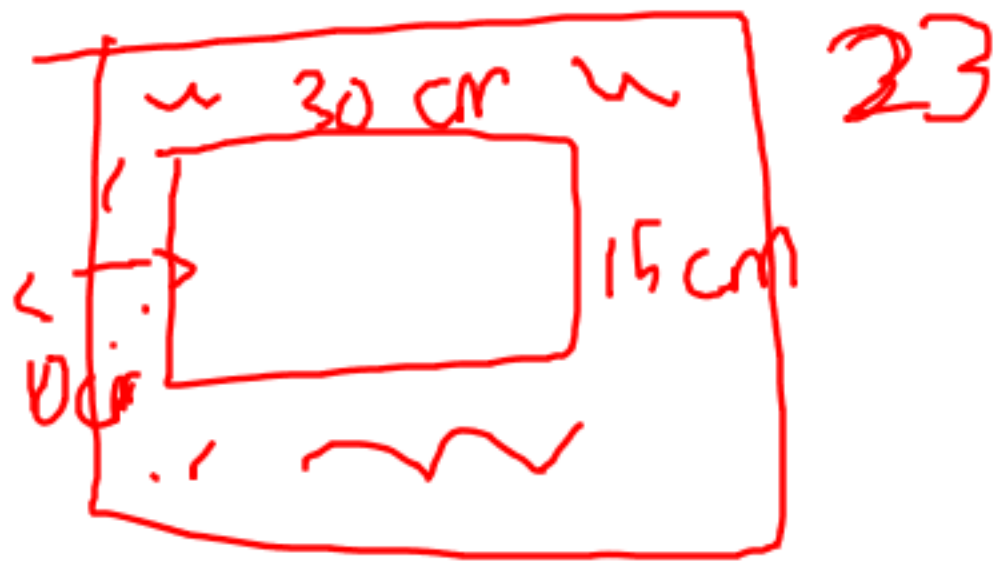
$$Sh.R. = TA - \frac{V_n Sh}{\pi r^2}$$

$$ShR = \pi r^2 - \pi r^2$$

$$ShR = 3.14(10)^2 - \pi(6)^2$$

$$ShR = 314 - 113.04$$

$$ShR = 200.96 \text{ cm}^2$$



$$Sh.R = T.A - Un.SR$$

$$Sh.R = L \times W - L \times W$$

$$Sh.R = (50 \times 35) - (30 \times 15)$$

$$Sh.R = 1750 - 450$$

$$Sh.R = 1300 \text{ cm}^2$$

Homework

Area of Composite Figures

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all questions