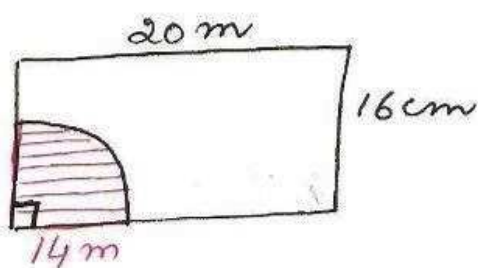


⑤



reqd. area

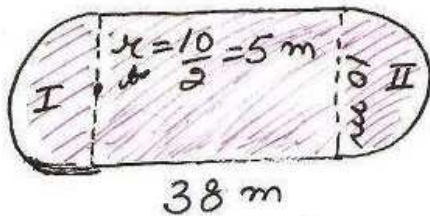
$$= \text{area of sector}$$

$$= \pi r^2 \frac{\theta}{360}$$

$$= \frac{22}{7} \times 14 \times 14 \times \frac{90}{360}$$

$$= 154 \text{ cm}^2$$

⑥



area of flower bed

$$= \text{area of rect.}$$

$$+ \text{area of 2 Semi} \odot \text{s}$$

$$= lb + \frac{\pi r^2}{2} \times 2$$

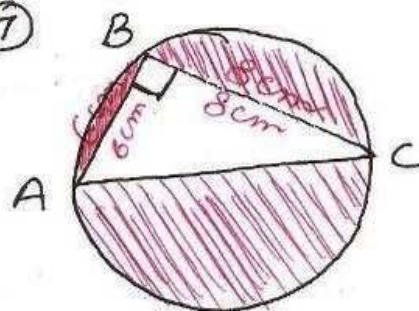
$$= 38 \times 10 + \frac{22}{7} \times 5 \times 5$$

$$= 380 + \frac{550}{7}$$

$$= \frac{3210}{7}$$

$$= 458.5 \text{ cm}^2$$

⑦



Sol $\angle B = 90^\circ$ (angle in Semi \odot)

In rt ΔABC

$$AC^2 = AB^2 + BC^2$$

[Pythagoras th.]

$$= 6^2 + 8^2$$

$$= 36 + 64$$

$$= 100$$

$$AC = \sqrt{100}$$

$$= 10 \text{ cm}$$

$$\therefore r = \frac{AC}{2}$$

$$= 5 \text{ cm}$$

area of shaded region

$$= \text{area of } \odot - \text{ar}(\Delta)$$

$$= \pi r^2 - \frac{1}{2} \times AB \times BC$$

$$= 3.14 \times 5 \times 5 - \frac{1}{2} \times 6 \times 8$$

$$= 78.5 - 24$$

$$= 54.5 \text{ cm}^2$$