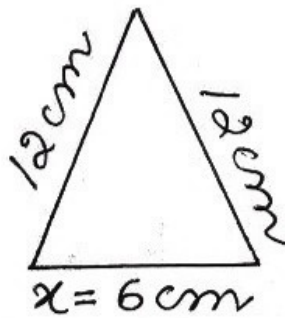


⑥



$$\text{Perimeter of } \Delta = 30 \text{ cm}$$

$$12 + 12 + x = 30$$

$$\Rightarrow x = 30 - 24$$

$$= 6$$

\therefore third side = 6 cm

$$\text{semiperimeter (s)} = \frac{p}{2}$$

$$= \frac{30}{2}$$

$$= 15 \text{ cm}$$

$$\text{area of } \Delta = \sqrt{15(15-6)(15-12)(15-12)}$$

$$= \sqrt{15 \times 9 \times 3 \times 3}$$

$$= 3 \sqrt{3 \times 5 \times 3 \times 3}$$

$$= 3 \times 3 \sqrt{15}$$

$$= 9\sqrt{15} \text{ cm}^2$$