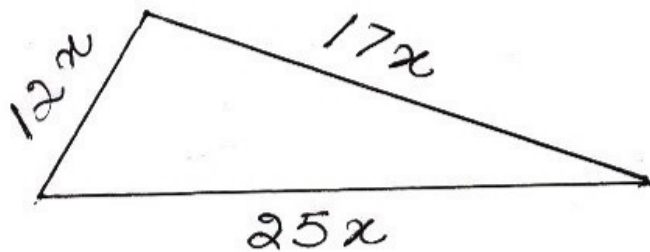


⑤



let the sides be  $12x$ ,  $17x$ ,  $25x$  cm

$$\text{Perimeter of } \Delta = 540 \text{ cm}$$

$$12x + 17x + 25x = 540$$

$$\Rightarrow 54x = 540$$

$$\Rightarrow x = 10$$

$\therefore$  sides are  $120$  cm,  $170$  cm,  $250$  cm

$$\begin{aligned} \text{semiperimeter (s)} &= \frac{540}{2} \\ &= 270 \text{ cm} \end{aligned}$$

$$\text{area} = \sqrt{270(270-120)(270-170)(270-250)}$$

$$= \sqrt{270 \times 150 \times 100 \times 20}$$

$$= \sqrt{3^2 \times 3 \times 10 \times 3 \times 5 \times 10 \times 10^2 \times 2 \times 2 \times 5}$$

$$= 3 \times 3 \times 2 \times 5 \times 10$$

$$= 9000 \text{ cm}^2$$