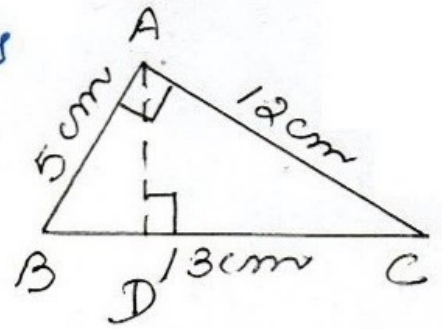


⑦ area rt. $\triangle ABC = \frac{1}{2}$ product of legs

$$= \frac{1}{2} \times AB \times AC$$

$$= \frac{1}{2} \times 5 \times 12$$

$$= 30 \text{ cm}^2$$



area of $\triangle ABC = \frac{1}{2} \times BC \times AD$

$$30 = \frac{1}{2} \times 13 \times AD$$

$$\Rightarrow AD = \frac{30 \times 2}{13}$$

$$= \frac{60}{13}$$

$$= 4\frac{8}{13} \text{ cm}$$

⑧ ar ($\triangle ABC$) = $\frac{1}{2} \times BC \times AD$

$$= \frac{1}{2} \times 9 \times 6$$

$$= 27 \text{ cm}^2$$

ar ($\triangle ABC$) = 27 cm^2

$$\frac{1}{2} \times AB \times CE = 27$$

$$\frac{1}{2} \times 7.5 \times CE = 27$$

$$\Rightarrow CE = \frac{27 \times 2}{7.5}$$

$$= 7.2 \text{ cm}$$

