

7 (ii) In rt $\triangle ABC$
using Pythagoras theorem

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

$$13^2 = AB^2 + 5^2$$

$$\Rightarrow AB^2 = 13^2 - 5^2$$

$$\Rightarrow AB = \sqrt{169 - 25}$$

$$= \sqrt{144}$$

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

$$= 2 \times 2 \times 3$$

$$= 12 \text{ cm}$$

