

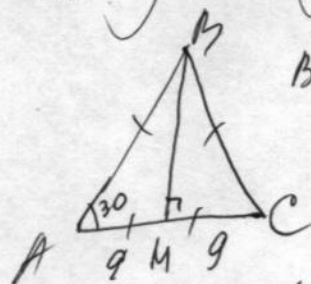
$$CM = AB = h$$

$BC = AM = 9$, т.к. $ABCM$ - прямоугольник

$\triangle CMD$ - прямоугольный по Т. Пифагора:

$$h = \sqrt{CD^2 - DM^2} = \sqrt{100 - 64} = 6$$

$$S_{ABCD} = \frac{(BC + AD) \cdot h}{2} = \frac{(9 + 17) \cdot 6}{2} = 72$$



$$BC = AB = \frac{AM}{\cos 30} = \frac{9 \cdot 2}{\sqrt{3}} = \frac{18\sqrt{3}}{3} = 6\sqrt{3}$$

$$BM = AM \cdot \tan 30 = \frac{9\sqrt{3}}{3} = 3\sqrt{3}$$

$$p = 2AB + AC = 2 \cdot 6\sqrt{3} + 18 = 12\sqrt{3} + 18 \text{ см}$$

$$S = \frac{1}{2} AC \cdot BM = \frac{1 \cdot 18 \cdot 3\sqrt{3}}{2} = 27\sqrt{3} \text{ см}^2$$