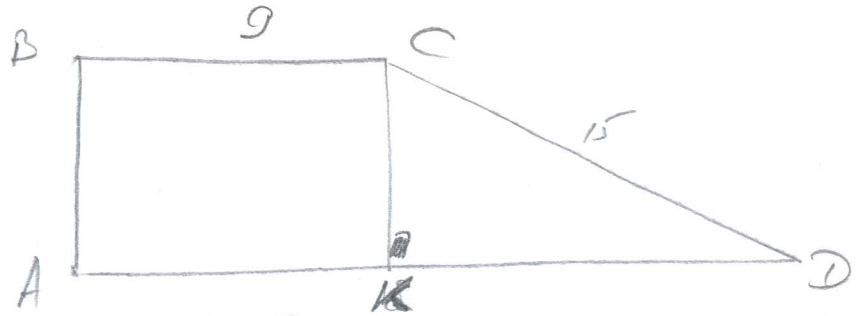


Дано: $BC = 9$ см
$AD = 18$ см
$CD = 15$ см

Найти: S_{ABCD} - ?

$AK = BC = 9$

$KD = AD - AK = 18 - 9 = 9$

CK находим по теореме Пифагора

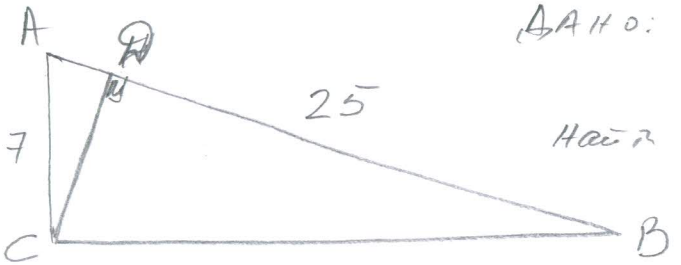
$$CK = \sqrt{15^2 - 9^2} = \sqrt{225 - 81} = 12$$

$CK = 12$

$$S_{CKD} = \frac{1}{2} \cdot 12 \cdot 9 = 54 \text{ см}^2$$

$$S_{ABCK} = 9 \cdot 12 = 108 \text{ см}^2$$

$$S_{ABCD} = 54 + 108 = 162 \text{ см}^2$$



Дано: $AB = 25$ см
$AC = 7$ см

Найти: CD - ?

$AD = x \Rightarrow DB = 25 - x$

Составляем пропорцию

$$\frac{AD}{AC} = \frac{AC}{AB} \Rightarrow$$

$$\frac{AD}{7} = \frac{7}{25} \quad AD = \frac{49}{25} = 1.96$$

$$DB = 25 - 1.96 = 23.04$$

Теперь другая пропорция

$$\frac{AD}{CD} = \frac{CD}{DB} \Rightarrow$$

$$CD = \sqrt{AD \cdot DB} = \sqrt{1.96 \cdot 23.04} =$$

$$= 1.4 \cdot 4.8 = \underline{6.72 \text{ см}}$$