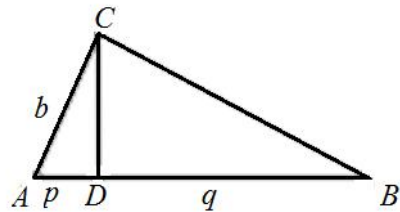


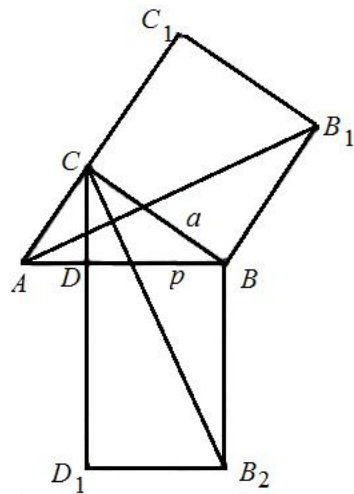
() .

$\triangle ABC$ -
 C D
 AD AC
 AB .
 $\overline{AC} = b, \overline{AD} = p, \overline{AB} = c.$



$\triangle ABC \sim \triangle ACD$ (
 $b : c = p : b, \quad b^2 = pc,$

$\triangle ABC$
 C -
 D BC -
 $BCC_1B_1,$ DB -
 BDD_1B_2 -
 $\overline{BB_2} = \overline{AB} = c.$ -
 $AB_1 \quad CB_2$ -
 $ABB_1 \quad CBB_2,$ -



$\angle ABB_1 = \angle CBB_2, \overline{BB_1} = \overline{BC} \quad \overline{BB_2} = \overline{AB}.$

ABB_1

A \overline{BC} , CBB_2

C \overline{BD} ,

$$P_{ABB_1} = \frac{1}{2} \overline{BB_1} \cdot \overline{BC} = \frac{1}{2} a^2 \quad P_{CBB_2} = \frac{1}{2} \overline{BB_2} \cdot \overline{DB} = \frac{1}{2} pc,$$

$$\frac{1}{2} a^2 = \frac{1}{2} pc, \quad a^2 = pc,$$

. ABC

C D

C .

BC BC

C_1B_1 , DB -

D_1B_2 $\overline{BB_2} = \overline{AB} = c$.

B_2B B_3

C_1B_1 -

$CC_2 \parallel AB$,

BCC_1B_1 -

. , B_2 -

BC DD_1

D_2 B_4 B

B_2D_2 . BDD_1B_1

. BB_1B_3 ABC , $\angle B_1BB_3 = \angle CBA$

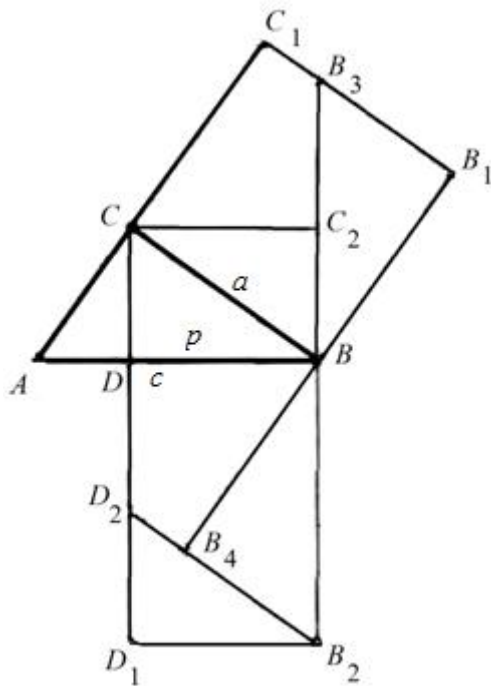
$\overline{BB_1} = \overline{BC} = a$,

ABC BB_2B_4 , $\angle B_2BB_4 = \angle CBA$

$\overline{BB_2} = \overline{AB} = c$,

BB_1B_3 BB_2B_4 . ,

BCC_2 $D_2B_2D_1$, $\overline{CC_2} = \overline{D_1B_2} = p$ $\angle BCC_2 = \angle D_2B_2D_1$

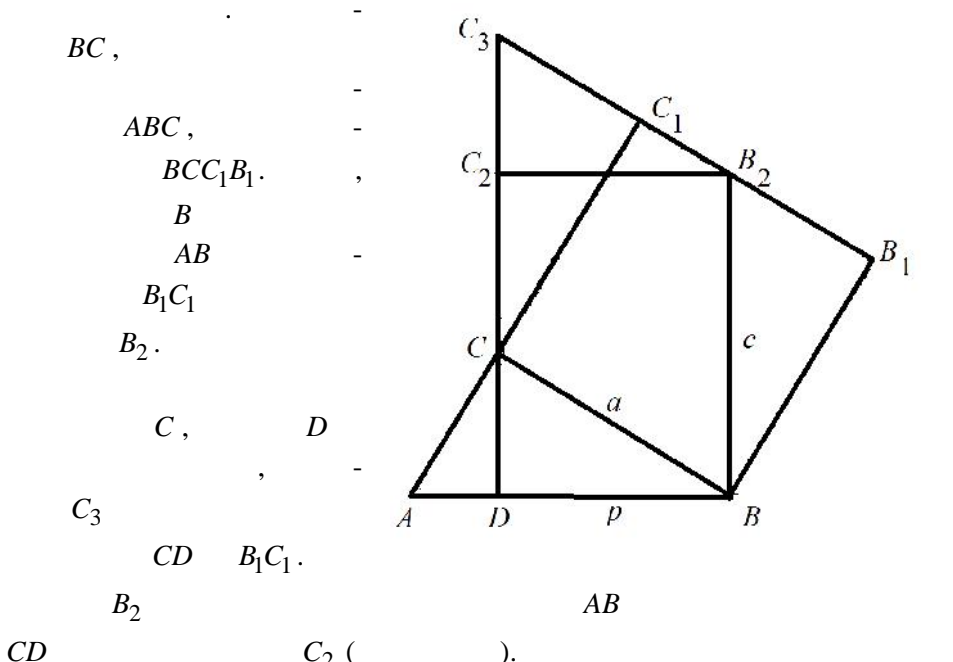


$$BDD_2B_4 \quad CC_2B_3C_1 \quad , \quad \angle C_1CC_2 = \angle B_4BD$$

$$\overline{CC_2} = \overline{DB} = p \quad \overline{CC_1} = \overline{BB_4} = a \quad ($$

$$CBB_3C_1 \quad BCD_2B_4$$

$$\dots a^2 = P_{BCC_1B_1} = P_{BDD_1B_2} = pc ,$$



$$P_{BCC_1B_1} = P_{CBB_2C_1} + P_{BB_1B_2} = P_{CBB_2C_1} + P_{CC_1C_2} = P_{BCC_3B_2} \cdot \overline{BB_2} = c \quad \overline{BD} = p ,$$

$$P_{BCC_1B_1} \quad \overline{BC} = a ,$$

$$a^2 = P_{BCC_1B_1} = P_{BCC_3B_2} = pc ,$$

.