Zadatak 21. Kolika je površina trokuta što ga s osi apscisa zatvaraju pravci $3x - 4y = 0$ i $3x - 2y - 6 = 0$?

Rješenje. Neka su A, B i C vrhovi traženog trokuta.

$$a \ \ldots \ 3x - 4y = 0$$
$$b \ \ldots \ 3x - 2y - 6 = 0$$
$$c \ \ldots \ \underline{y = 0 \ \text{(os apscisa)}}$$

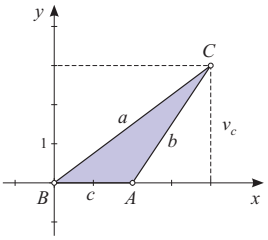
$$A \in b \cap c \quad 3x - 6 = 0$$
$$x = 2 \implies \boxed{A(2,0)}$$

$$B \in a \cap c \quad 3x = 0$$
$$x = 0 \implies \boxed{B(0,0)}$$

$$C \in a \cap b \quad 3x - 4y = 0$$
$$\underline{3x - 2y - 6 = 0}$$

oduzimanjem dobijemo: $-2y + 6 = 0$

$$y = 3$$
$$3x - 4 \cdot 3 = 0$$
$$x = 4 \implies \boxed{C(4,3)}$$



$$P = \frac{c \cdot v_c}{2} = \frac{2 \cdot 3}{2} = 3.$$