

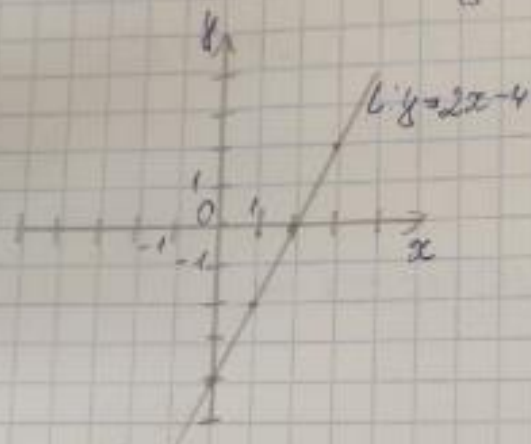
(30.04.20)

№4.2.1.

$2x - y - 4 = 0$ , график - ?

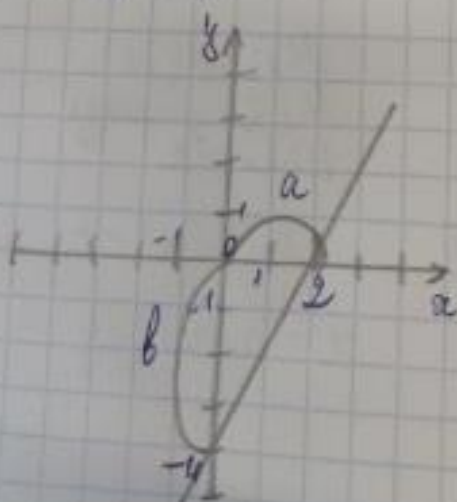
1 способ:  $y = 2x - 4$

|     |    |    |   |   |
|-----|----|----|---|---|
| $x$ | 0  | 1  | 2 | 3 |
| $y$ | -4 | -2 | 0 | 2 |

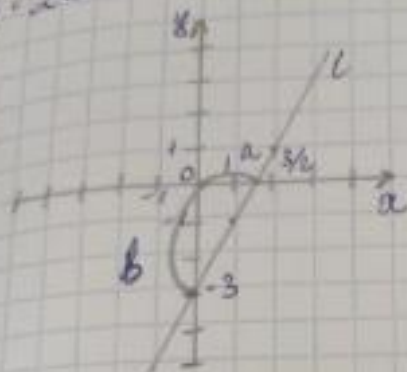


2 способ.

$\frac{x}{a} + \frac{y}{b} = 1$        $2x - y - 4 = 0 \Rightarrow 2x - y = 4 \Rightarrow \frac{2x}{4} - \frac{y}{4} = 1$   
 $\Rightarrow \frac{x}{2} + \frac{y}{-4} = 1$



√4.2.2  
 $y = 2x - 3 \Rightarrow -2x + y = -3 \Rightarrow \frac{2x}{3} + \frac{y}{-3} = 1 \Rightarrow$   
 $\Rightarrow \frac{x}{3/2} + \frac{y}{-3} = 1$



√4.2.3.  
 $(L^2 - L)x + (2 + L)y - 3L + 1 = 0$

a)  $L = ?$   $L \parallel O_x$   
 b)  $L = ?$   $L \ni O(0;0)$

a)  $L \parallel O_x \Leftrightarrow A = 0 \Rightarrow L^2 - L = 0 \Rightarrow L(L - 1) = 0$   
 $L_1 = 0 \quad L_2 = 1$

b)  $O(0;0) \in L \Leftrightarrow C = 0 \Rightarrow -3L + 1 = 0 \Rightarrow$

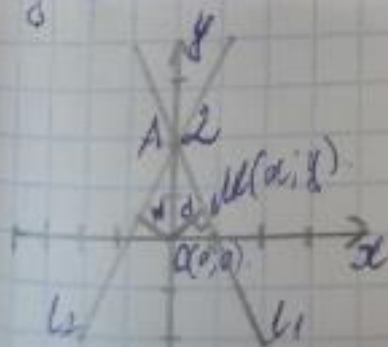
$\Rightarrow L = \frac{1}{3}$

√4.2.4.

$y = kx + 2$   $d = \sqrt{3}$  - mesury  $L$  cu  $O(0;0)$

$A(0;2) \in L$

$L: A \in L$



$$d = \left| \frac{c}{\sqrt{a^2 + b^2}} \right| - \text{расстояние от } O(0;0) \text{ до прямой } L$$

$$k = \frac{y_2 - y_1}{x_2 - x_1} = \frac{y - 2}{x - 0} = \frac{y - 2}{x}$$

$$x \cos \alpha + y \sin \alpha + p = 0 \quad A(0; 2), \text{ расстояние от } A \text{ до } L$$

$$0 \cos \alpha + 2 \sin \alpha - \sqrt{3} = 0$$

$$2 \sin \alpha = \sqrt{3} \quad \sin \alpha = \frac{\sqrt{3}}{2}$$

$$\text{Расстояние от } O(0;0) \text{ до } L = 60^\circ, |OK| = \sqrt{3}, A(0; 2), M(x; y)$$

$$L: y = kx + 2, k = ?$$

