

№ 4.2.1

30.04.20

$$2x - y - 4 = 0$$

x	0	2
y	-4	0

$$1) y = 2x - 4$$

При $x=0$:

$$2 \cdot 0 - y - 4 = 0$$

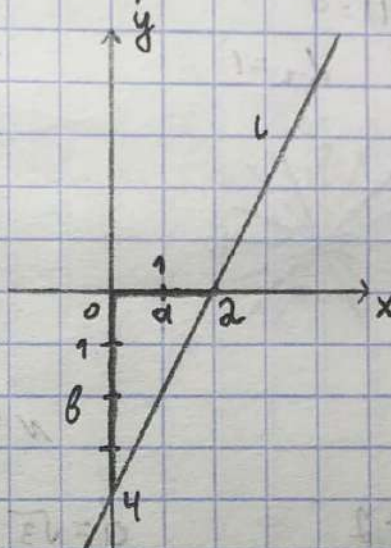
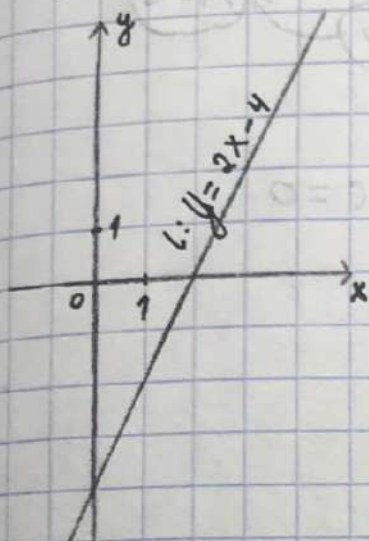
$$y = -4$$

При $x=2$:

$$2 \cdot 2 - y - 4 = 0$$

$$y = 0$$

$Ax + By + C = 0$: через общие упр-е.



$$2) \frac{x}{a} + \frac{y}{b} = 1$$

$$2x - y - 4 = 0 \Rightarrow 2x - y - 4 = 0 \Rightarrow \frac{2x}{4} - \frac{y}{4} = 1;$$

$$\frac{x}{2} + \frac{y}{-4} = 1$$

№ 4.2.2

в отрезок - ? график - ?

$$y = 2x - 3$$

$$\frac{x}{a} + \frac{y}{b} = 1$$

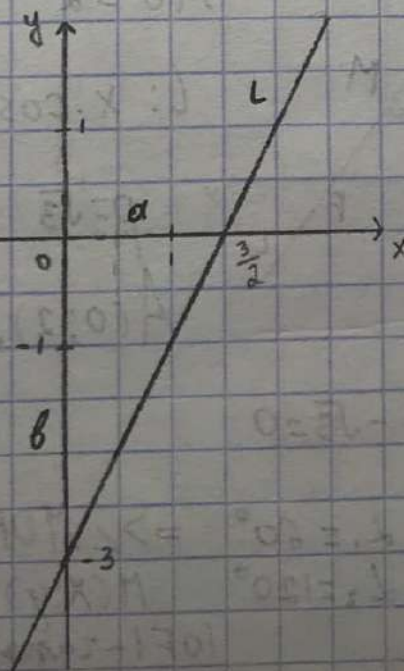
$$2x - y - 3 = 0$$

$$2x - y = 3$$

$$\frac{2x}{3} - \frac{y}{3} - \frac{3}{3} = 1$$

$$\left(\frac{x}{3} + \frac{y}{-3} = \frac{1}{2} \right)$$

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



~ 4.2.3

$$(d^2 - d)x + (2 + d)y - 3d + 1 = 0$$

a) $d = ?$ $L \parallel O_x$

b) $d = ?$ $L \in O(0;0)$

$(L \parallel O_x \Leftrightarrow A=0)$

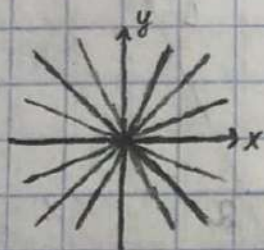
$(L \parallel O_x \Leftrightarrow By + C = 0)$

$A=0$

a) $d^2 - d = 0$

$d(d-1) = 0$

$d_1 = 0$ $d_2 = 1$



b) $O(0;0) \in L \Leftrightarrow C = 0$

m.e.

$-3d + 1 = 0$

$-3d = -1$

$d = -1/(-3) = 1/3$

$d = 1/3$

~ 4.2.4

$y = kx + 2$

$k = ?$

$d = \sqrt{3}$ - расстояние между L и $O(0;0)$

$A(0;2) \in L$ $L: A \in L$

$d = \left| \frac{C}{\sqrt{a^2 + b^2}} \right|$ - расстояние между L и $O(0;0)$

$AO = 2$ $OM = \sqrt{3}$

$L: x \cdot \cos d + y \cdot \sin d - p = 0, A \in L$

$p = \sqrt{3}$

$d = \angle MO_x$

$A(0;2)$, p расстояние от O до L

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

$2 \sin d = \sqrt{3}$

$\sin d = \sqrt{3}/2$

$d_1 = 60^\circ$

$d_2 = 120^\circ$

$\Rightarrow \angle MOF = 60^\circ, |OM| = \sqrt{3}, |OA| = 2$

$M(x;y); L: y = kx + 2, k = ?$

$|OF|$ - гипотенуза $\triangle OMF$

