Построить пл-ти

№15.05 № 521

1) $2y - 5 = 0$

$By + D = 0 \Rightarrow d \parallel Oxz$

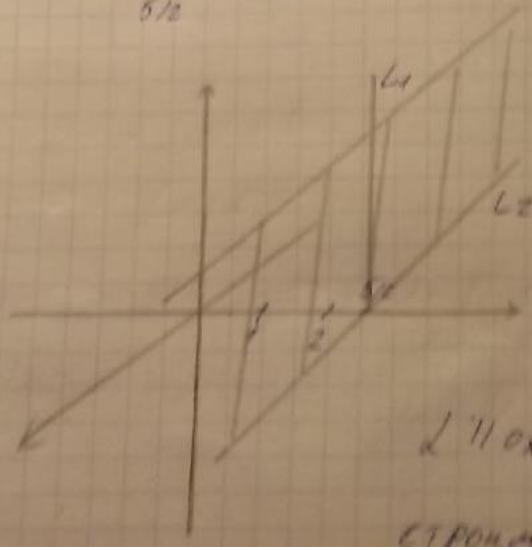
$\left[\frac{x}{a} + \frac{y}{b} + \frac{z}{c} = 1\right]$

$2y - 5 = 0$

$2y = 5 \mid :5$

$\frac{2y}{5} = 1$

$\frac{y}{5/2} = 1$



$L \parallel Oxz$

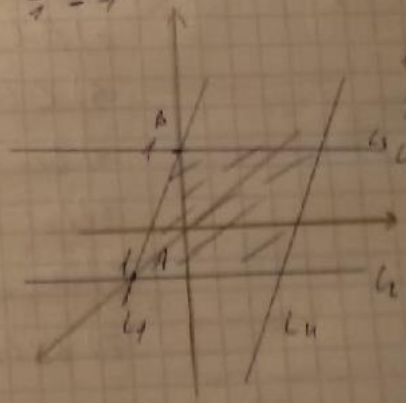
Строим п-ть (0;5/2;0)

2) $x + z - 1 = 0$

$B = 0 \quad (Ax + Cz + D = 0 \Rightarrow L \parallel Oy$

$x + z = 1$

$\frac{x}{1} + \frac{z}{1} = 1$



1) $A(1;0;0)$

2) $B(0;0;1)$

3) L_3: $A, B \in L$

4) L_4: $A \in l_2 (l_2 \parallel O_y)$

5) L_5: $B \in l_1 (l_1 \parallel O_x)$

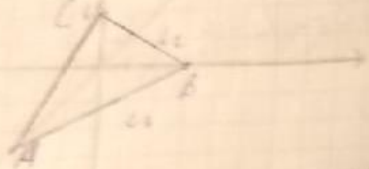
6) $L_4 : L_5 \parallel L$

$L_4 \cap l_2$, $L_5 \cap l_1$

3) $3x + 4y + 6z - 12 = 0$

$3x + 4y + 6z = 12 \mid :12$

$\frac{x}{4} + \frac{y}{3} + \frac{z}{2} = 1$



1) A(4; 0; 0)

2) B(0; 3; 0)

3) C(0; 0; 2)

4) L_1: A, C $\in L_1$

5) L_2: C, B $\in l_2$

6) L_3: A, B $\in l_3$

7) α: $L_1, L_2, L_3 \in \alpha$

№ 522

1) α - ?

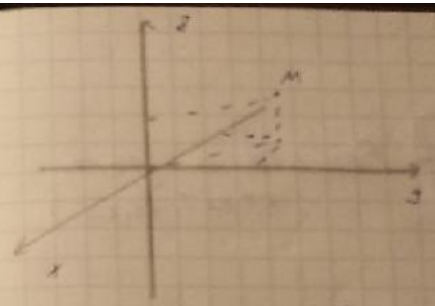
M(-2; 3; 1) $\in \alpha$, $\alpha \parallel Oxy$

$\alpha \parallel Oxy \Rightarrow \alpha$: $Cz + D = 0$

$M(-2; 3; 1) \in \alpha \Rightarrow C \cdot 1 + D = 0$

$\Downarrow$

$C = -D$



$Cz + D = 0$

$D = -C$

$Cz + (-C) = 0$

$C(z - 1) = 0$

$C \neq 0$

$T \times C \neq 0 \Rightarrow z - 1 = 0$

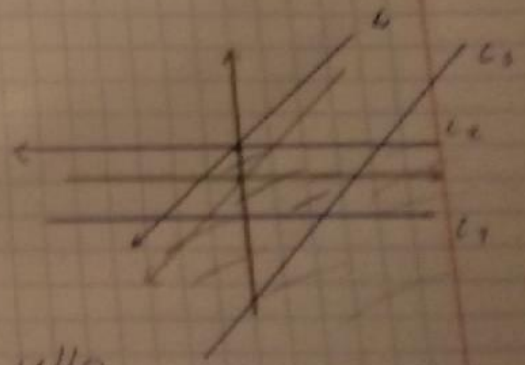
$|AB| = \sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2 + (z_2 - z_1)^2}$

$|OM| = \sqrt{(-2 - 0)^2 + (3 - 0)^2 + (1 - 0)^2} = \sqrt{14}$

2) Построить

$z = 1$

$\frac{z}{1} = 1$



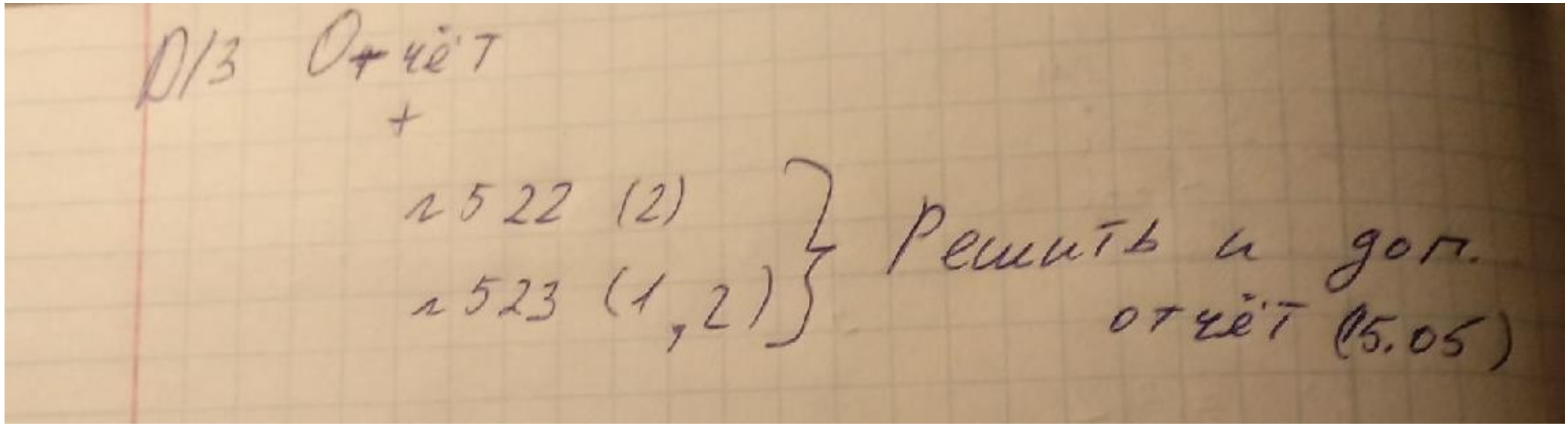
а) A(0; 0; 1)

б) L_1: $A \in L_1$; $L_1 \parallel O_x$

в) L_2 : $A \in l_2$; $l_2 \parallel O_y$

г) $L_3 \parallel L_2$, ΛL_2

д) $L_4 \parallel L_2$, ΛL_2


ДЗ Отчёт
+
№522 (2)
№523 (1,2)
Решить и доп. отчёт (15.05)