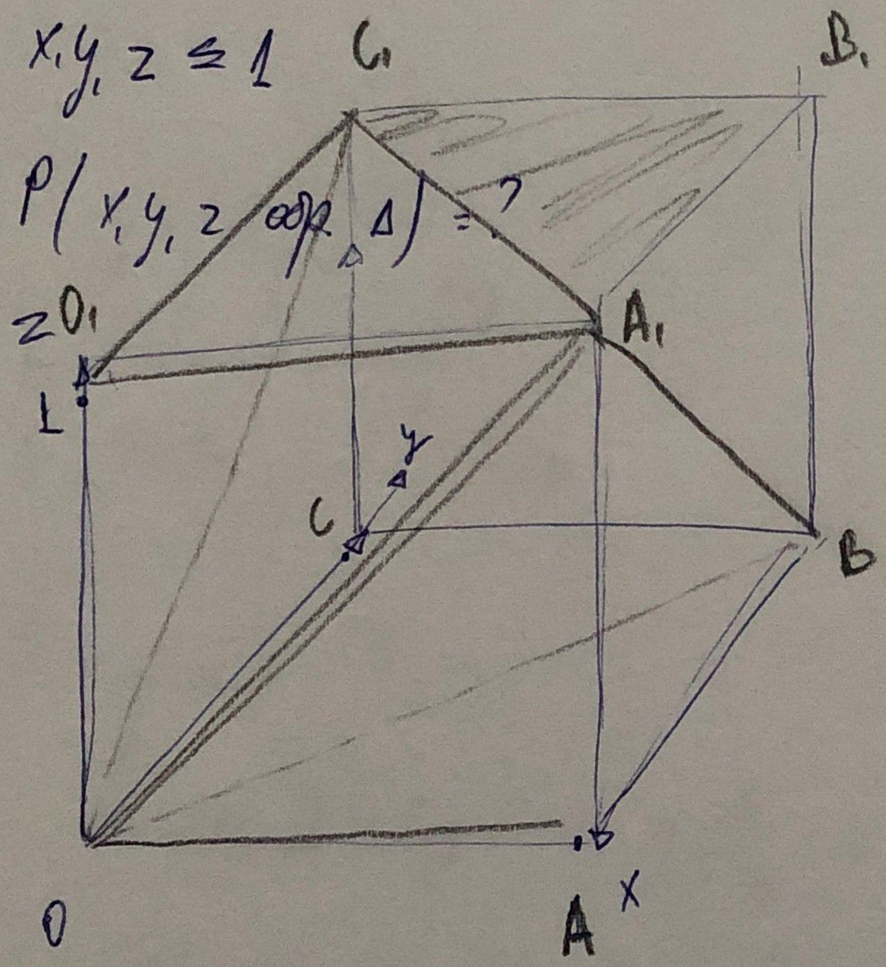
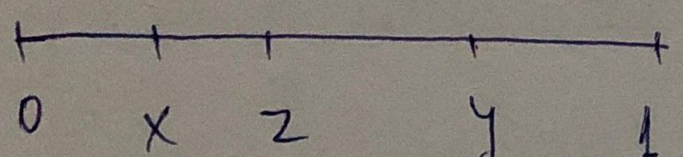
09.11.

СЕМ упр.

Зад $x, y, z \le 1$





решение

$x+y \ge z$

$y+z \ge x$

$x+z \ge y$

$x+y < z \longrightarrow OA_1C_1O_1 = V_1$

$y+z < x \longrightarrow OABA_1 = V_2$

$x+z < y \longrightarrow OBCC_1 = V_3$

$$V_1 = \frac{S_{O_1A_1C_1} \cdot OO_1}{3} = \frac{1}{6} V_{куба}$$

$$\Longrightarrow отр = \frac{V - 3V_1}{V} = \frac{1 - 3 \cdot \frac{1}{6}}{1} = \frac{1}{2}$$

$$\mathbb{P}(x,y,z \text{ отр } \Delta) = \quad = \max(x,y,z)$$

$$= \mathbb{P}(x,y,z \text{ отр } \Delta \mid x \ge y,z)\,\mathbb{P}(x \ge y,z) + \mathbb{P}(\text{---//---} \mid y = \max(x,y,z))\,\mathbb{P}(y \text{ max } \ldots) \ldots = \quad (\mathbb{P}(x \ge y,z) = \tfrac{1}{3})$$

$$= 3 \cdot \left(\cdot \frac{1}{3} \right) = \frac{1}{2}$$