

Zad. 3.

$$x \rightarrow \frac{d}{2}, \quad y \rightarrow \frac{d}{2} y, \quad z \rightarrow z$$

$$d = -1, \quad A = (6, 0, -4), \quad B = (6, 0, 0), \quad A = A', \quad B = B'$$

$$a) \quad C = \left(\frac{12}{5}, 0, -\frac{12}{5} \right), \quad D = \left(5, 0, -\frac{2}{3} \right)$$

$$\frac{12}{5} \rightarrow \frac{-1}{-\frac{12}{5}} = \frac{5}{12} \quad 0 \rightarrow \frac{-1}{-\frac{12}{5}} \cdot 0 = 0 \quad -\frac{12}{5} \rightarrow -\frac{12}{5}$$

$$\Rightarrow C' \left(\frac{5}{12}, 0, -\frac{12}{5} \right)$$

$$D = \left(5, 0, -\frac{2}{3} \right)$$

$$5 \rightarrow \frac{-1}{-\frac{2}{3}} = \frac{3}{2} \quad 0 \rightarrow \frac{-1}{-\frac{2}{3}} \cdot 0 = 0 \quad -\frac{2}{3} \rightarrow -\frac{2}{3}$$

$$\Rightarrow D' \left(\frac{3}{2}, 0, -\frac{2}{3} \right)$$

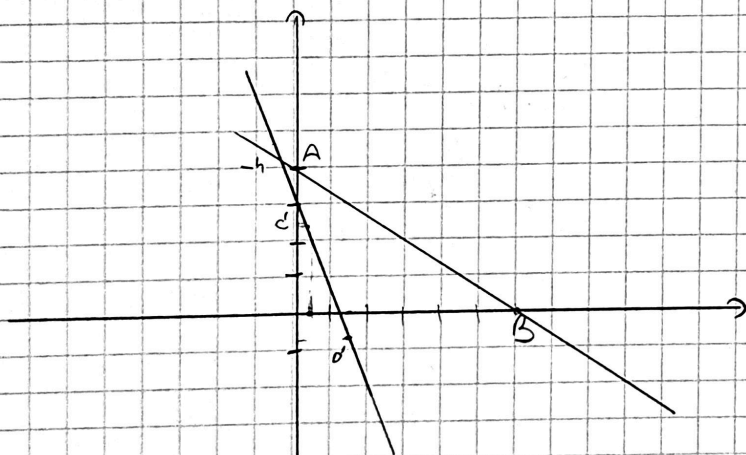
$$\overrightarrow{AB} = (6, 0, 4) \quad \overrightarrow{C'D'} = \left(\frac{13}{12}, 0, \frac{26}{15} \right)$$

$$\text{paralelni: } (6, 0, 4) = \left(\frac{13}{12} \angle, 0, \frac{26}{15} \angle \right) ?$$

$$6 = \frac{13}{12} \angle \Rightarrow \angle = \frac{72}{13}$$

$$4 = \frac{26}{15} \angle \Rightarrow \angle = \frac{30}{13}$$

\Rightarrow nisu paralelni



$$b) \quad x_T = \frac{1}{2} (0+6) = 3$$

$$y_T = \frac{1}{2} (0+0) = 0$$

$$z_T = \frac{1}{2} (-4+0) = -2$$

$$T = (3, 0, -2)$$

$$x_{T'} = \frac{d}{z_4 + z_0} (x_4 + x_0) = \frac{-1}{-4} \cdot 6 = \frac{3}{2}$$

$$y_{T'} = 0$$

$$z_{T'} = \frac{1}{2} (-4) = -2$$

$$T' = \left(\frac{3}{2}, 0, -2\right)$$

