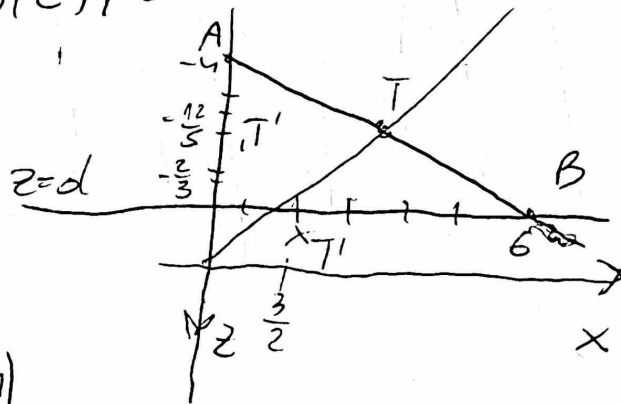


$$3. \quad x \rightarrow \frac{d}{z}, \quad y \rightarrow \frac{d}{z} y \quad z \rightarrow z$$

$$T(x, y, z), \quad z=d$$



$$d = -1$$

$$A = (0, 0, -4)$$

$$B = (6, 0, 0)$$

$$A' = A \quad B = B_1$$

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

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

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

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

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

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

$$\overrightarrow{AB} = (6, 0, 4) \quad \overrightarrow{C'D'} = \left(\frac{13}{12}, 0, \frac{26}{15} \right) \quad \overrightarrow{AB} = 2 \cdot \overrightarrow{C'D'}$$

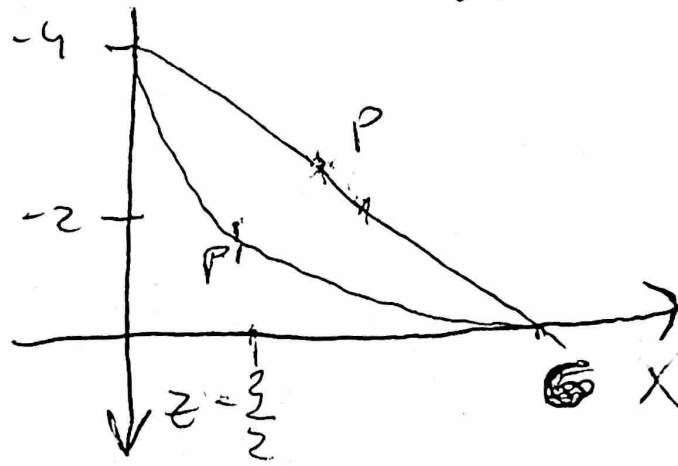
$L_1 \neq L_2$
nu sunt paralele
si nu sunt coliniare

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sunt
paralele

$$\left\{ \begin{array}{l} 6 = \frac{13}{12} \cdot 2 \rightarrow 2 = \frac{72}{13} \\ 4 = \frac{26}{15} \cdot 2 \rightarrow 2 = \frac{30}{13} \end{array} \right.$$

b)



$$x_P = \frac{x_A + x_B}{2} = \frac{0 + 6}{2} = 3$$

$$z_P = \frac{z_A + z_B}{2} = \frac{-4 + 0}{2} = -2$$

$$(x, y, z) \rightarrow \left(\frac{-d}{z} x, \frac{-d}{z} y, z \right)$$

$$x_P' = \frac{-d \cdot x_P}{z} = \frac{-1 \cdot 3}{2} = -\frac{3}{2}$$

$$z_P' = -2$$

$$y_P = \frac{y_A + y_B}{2} = \frac{0 + 0}{2} = 0 = y_P'$$