

3

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

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

$$A = A'$$

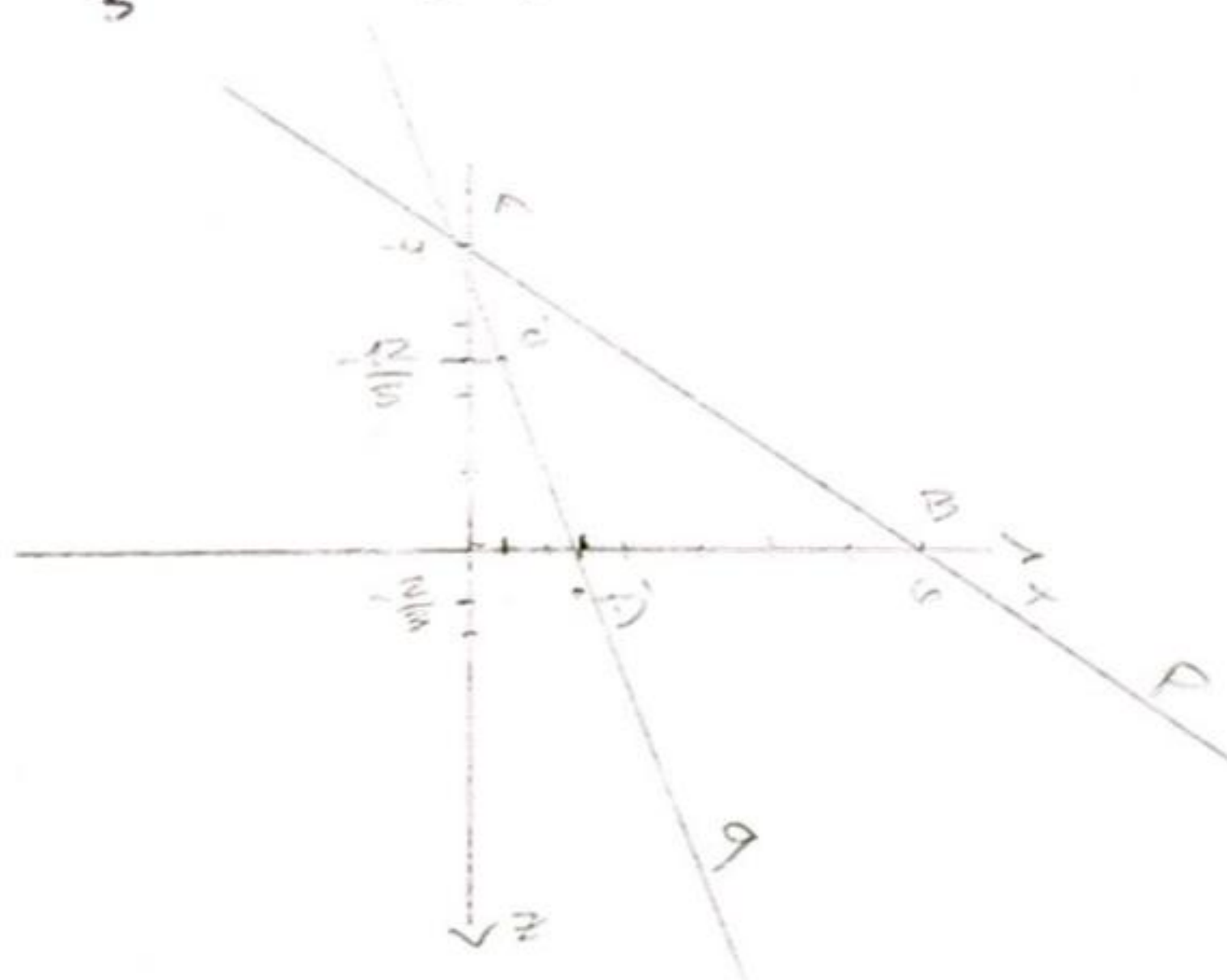
$$B = B'$$

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

$$C', D' = ?$$

$$C' = \left. \begin{array}{l} x: \frac{12}{5} \mapsto \frac{5}{12} \\ y: 0 \mapsto 0 \\ z: -\frac{12}{5} \mapsto -\frac{12}{5} \end{array} \right\} \Rightarrow C' = \left(\frac{5}{12}, 0, -\frac{12}{5}\right)$$

$$D' = \left. \begin{array}{l} x: 5 \mapsto \frac{3}{2} \\ y: 0 \mapsto 0 \\ z: -\frac{2}{3} \mapsto -\frac{2}{3} \end{array} \right\} \Rightarrow D' = \left(\frac{3}{2}, 0, -\frac{2}{3}\right)$$



S OBZIROM NA  $y$ -KOMPONENTE TOČAKA  $A, B, C', D'$ , MOŽEMO IH PROMATRATI KAO TOČKE KOJE ODREĐUJU PRAVCE U 2D PROSTORU tj. VRIJEDI:

$$P \dots y - y_1 = \frac{y_2 - y_1}{x_2 - x_1} (x - x_1) \quad \text{[ZA } y_1, y_2 \text{ VVRSTIMO } z_1, z_2 \text{.]}$$

$$z + 4 = \frac{0 + 4}{6 - 0} (x - 0)$$

$$z = \frac{2}{3}x - 4 \Rightarrow k_1 = \frac{2}{3}$$

$$q \dots z - z_1 = \frac{z_2 - z_1}{x_2 - x_1} (x - x_1)$$

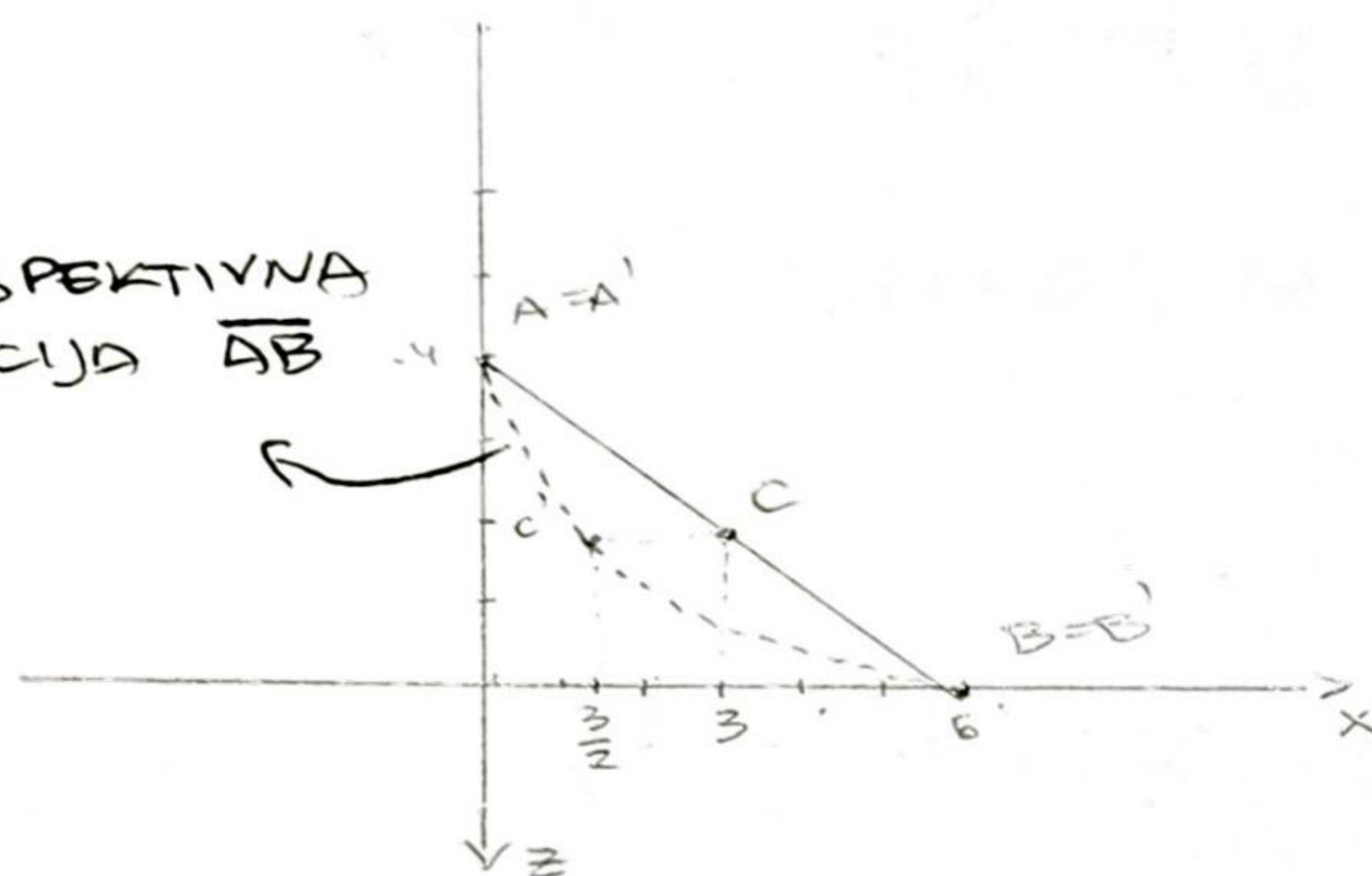
$$z + \frac{12}{5} = \frac{-\frac{2}{3} + \frac{12}{5}}{\frac{3}{2} - \frac{5}{12}} \left(x - \frac{5}{12}\right)$$

$$z = \frac{8}{5}x - \frac{46}{15} \Rightarrow k_2 = \frac{8}{5}$$

BUDUĆI DA KOEF. PRAVACA NISU JEDNAKI ONI NISU PARALELNI.

6)  $A = A'$   
 $B = B'$

PERSPEKTIVNA  
 PROJEKCIJA  $\overline{AB}$



TRAŽIMO:  $x_C = \frac{1}{2}(x_A + x_B) = \frac{1}{2}(0 + 6) = 3$

$$x_{C'} = \frac{d}{z_A + z_B}(x_A + x_B) = \frac{-1}{-4 + 0}(0 + 6) = \frac{3}{2}$$