

3. $x \rightarrow \frac{d}{z}, y \rightarrow \frac{d}{z} y, z \rightarrow z$
 $d = -1, A = (0, 0, -4), B = (6, 0, 0), A = A', B = B'$

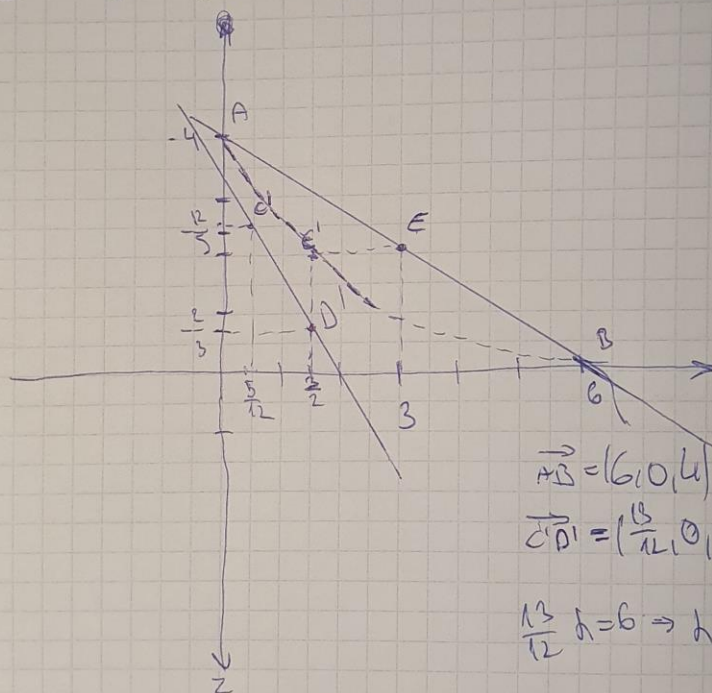
a) $C = (\frac{12}{5}, 0, -\frac{12}{5})$

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

$C', D' = ?$

$C' \begin{cases} x: \frac{12}{5} \mapsto \frac{5}{12} \\ y: 0 \mapsto 0 \\ z: -\frac{12}{5} \mapsto -\frac{12}{5} \end{cases} \Rightarrow C' = (\frac{5}{12}, 0, -\frac{12}{5})$

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



$\vec{AB} = (6, 0, 4)$

$\vec{C'D'} = (\frac{13}{12}, 0, \frac{26}{15})$

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

$\frac{26}{15} d = 4 \Rightarrow d = \frac{60}{26} = \frac{30}{13}$

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$\frac{72}{13} \neq \frac{30}{13}$

$x_E = \frac{1}{2}(x_A + x_B)$
 $= \frac{6}{2} = 3$

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