8-) $P' = \begin{bmatrix} 1 & 0 & 0 & x_0 \\ 0 & 1 & 0 & y_0 \\ 0 & 0 & 1 & z_0 \\ 0 & 0 & 0 & 1 \end{bmatrix} \times \begin{bmatrix} 1 & 0 & 0 & 0 \\ 0 & 1 & 0 & 0 \\ 0 & 0 & 1 & 0 \\ 1/d & 0 & 0 & 0 \end{bmatrix} \times \begin{bmatrix} 1 & 0 & 0 & -x_0 \\ 0 & 1 & 0 & -y_0 \\ 0 & 0 & 1 & -z_0 \\ 0 & 0 & 0 & 1 \end{bmatrix} \times \begin{bmatrix} x \\ y \\ z \\ 1 \end{bmatrix}$

$P' = \; // \; \times \; // \; \times \begin{bmatrix} x - x_0 \\ y - y_0 \\ z - z_0 \\ 1 \end{bmatrix}$

$P' = \begin{bmatrix} 1 & 0 & 0 & x_0 \\ 0 & 1 & 0 & y_0 \\ 0 & 0 & 1 & z_0 \\ 0 & 0 & 0 & 1 \end{bmatrix} \times \begin{bmatrix} x - x_0 \\ y - y_0 \\ z - z_0 \\ (x - x_0) \div (1/d) \end{bmatrix} = \overbrace{\begin{bmatrix} x - x_0 + x_0 (x - x_0)/d \\ y - y_0 + y_0 (x - x_0)/d \\ z - z_0 + z_0 (x - x_0)/d \\ (x - x_0) \div d \end{bmatrix}}^{w}$ $\} w$

$P' = \begin{bmatrix} x - x_0 + x_0 \cdot w \\ y - y_0 + y_0 \cdot w \\ z - z_0 + z_0 \cdot w \\ w \end{bmatrix} \div w = \begin{bmatrix} [(x - x_0)/w] + x_0 \\ [(y - y_0)/w] + y_0 \\ [(z - z_0)/w] + z_0 \\ 1 \end{bmatrix}$ $\rightarrow w = \frac{(x - x_0)}{d} = \frac{8 - 2}{1} = 6$ //

$P' = \begin{bmatrix} (8-2)/6 & +2 \\ (4-4)/6 & +4 \\ (10-0)/6 & +0 \\ 1 & \end{bmatrix} = \begin{bmatrix} 3 \\ 4 \\ 1{,}67 \\ 1 \end{bmatrix}$

$P'(\overset{x}{3}; \overset{y}{4}; \overset{z}{1{,}67})$