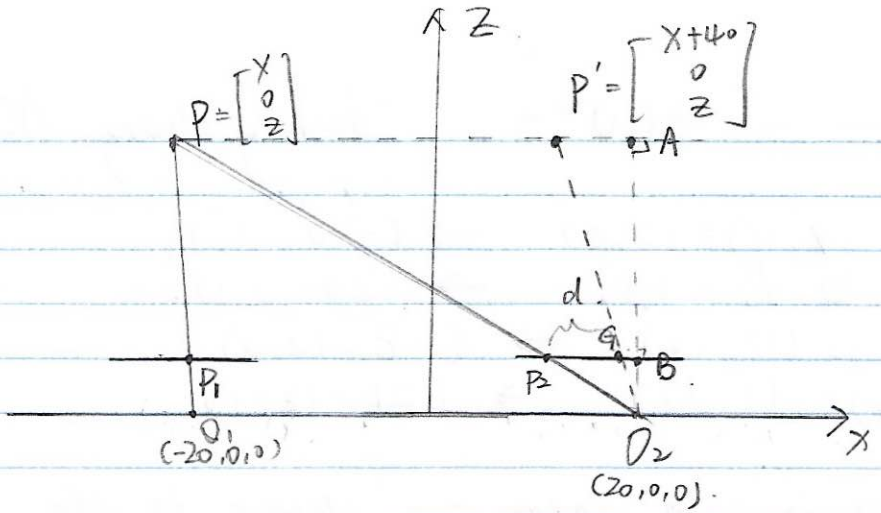

From the graph, we can tell.

$AO_2 \perp P_2B$,

$A = \begin{bmatrix} 20 \\ 0 \\ z \end{bmatrix}$, $B = \begin{bmatrix} 20 \\ 0 \\ 1 \end{bmatrix}$

we want to get the expression for $d = GP_2$

$$\frac{d}{PP'} = \frac{O_2G}{O_2P'} = \frac{O_2B}{O_2A} = \frac{P_2B}{PA}$$

$$= \frac{-x}{20-x} = \frac{1}{z} = \frac{1}{-x}$$

So, $d = -2x - 2$