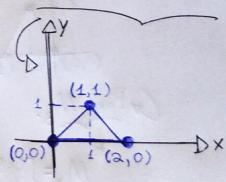
* ALUNO: JOÃO GABRIEL CARNEIRO MEDEIROS - PROF. AJALMAR

1) Com BASE no QUE FOI ENSINADO NA AULA ASSÍNCRONA DO DIA "14/05" IREMOS REALIZAR AS TRANSFORMAÇÕES EM ESCALA 2D com BASE no QUE SE SEGUE:

ii) A GORA, PARA AS TRANSFORMA ÇÕES: 0=[00;20;11]



*
$$M_1 = \begin{bmatrix} 1.5 & 0.0 \\ 0.0 & 1.5 \end{bmatrix} \rightarrow \begin{bmatrix} x_1' & x_2' & x_3' \\ y_1' & y_3' & y_3' \end{bmatrix} = \begin{bmatrix} 2.5 & 0.0 \\ 0.0 & 1.5 \end{bmatrix} \begin{bmatrix} 0 & 2 & 1 \\ 0 & 0 & 1 \end{bmatrix} = \begin{bmatrix} 0.0 & 1.5 \\ 0.0 & 1.5 \end{bmatrix}$$

$$* (x'_{1}, y'_{1}) = (0,0); (x'_{2}, y'_{3}) = (x'_{3}, y'_{3}) = (15,15)$$

$$(15,15)$$



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*
$$M_{2}$$
:

* $M_{2} = \begin{bmatrix} 0.5 & 0.0 \\ 0.0 & 1.0 \end{bmatrix} \rightarrow \begin{bmatrix} x_{1}^{1} & x_{2}^{1} & x_{3}^{1} \\ y_{1}^{1} & y_{3}^{1} & y_{3}^{1} \end{bmatrix} = \begin{bmatrix} 0.5 & 0.0 \\ 0.0 & 1.0 \end{bmatrix} \begin{bmatrix} 0 & 2 & 1 \\ 0.0 & 1 \end{bmatrix} = \begin{bmatrix} 0 & 1 & 0.5 \\ 0 & 0 & 1 \end{bmatrix}$

* $(x_{1}^{1}, y_{1}^{1}) = (0,0); (x_{2}^{1}, y_{3}^{1}) = (1,0); (x_{3}^{1}, y_{3}^{1}) = (0.5,1)$

GPARA M3:

*
$$M_3 = \begin{bmatrix} 0.5 & 0.0 \\ 0.0 & 0.5 \end{bmatrix} \rightarrow \begin{bmatrix} X_1^1 & X_2^1 & X_3^1 \\ Y_1^1 & Y_2^1 & Y_3^1 \end{bmatrix} = \begin{bmatrix} 0.5 & 0.0 \\ 0.0 & 0.5 \end{bmatrix} \cdot \begin{bmatrix} 0 & 2 & 1 \\ 0 & 0 & 1 \end{bmatrix} = \begin{bmatrix} 0.5 & 0.0 \\ 0.0 & 0.5 \end{bmatrix} \cdot \begin{bmatrix} 0 & 2 & 1 \\ 0 & 0 & 1 \end{bmatrix} = \begin{bmatrix} 0.5 & 0.0 \\ 0.0 & 0.5 \end{bmatrix} \cdot \begin{bmatrix} 0 & 2 & 1 \\ 0.0 & 0.5 \end{bmatrix} = \begin{bmatrix} 0.5 & 0.0 \\ 0.0 & 0.5 \end{bmatrix} \cdot \begin{bmatrix} 0 & 2 & 1 \\ 0.0 & 0.5 \end{bmatrix} = \begin{bmatrix} 0.5 & 0.0 \\ 0.0 & 0.5 \end{bmatrix} \cdot \begin{bmatrix} 0 & 2 & 1 \\ 0.0 & 0.5 \end{bmatrix} = \begin{bmatrix} 0.5 & 0.0 \\ 0.0 & 0.5 \end{bmatrix} \cdot \begin{bmatrix} 0 & 2 & 1 \\ 0.0 & 0.5 \end{bmatrix} = \begin{bmatrix} 0.5 & 0.0 \\ 0.0 & 0.5 \end{bmatrix} \cdot \begin{bmatrix} 0 & 2 & 1 \\ 0.0 & 0.5 \end{bmatrix} = \begin{bmatrix} 0.5 & 0.0 \\ 0.0 & 0.5 \end{bmatrix} \cdot \begin{bmatrix} 0 & 2 & 1 \\ 0.0 & 0.5 \end{bmatrix} = \begin{bmatrix} 0.5 & 0.0 \\ 0.0 & 0.5 \end{bmatrix} \cdot \begin{bmatrix} 0 & 2 & 1 \\ 0.0 & 0.5 \end{bmatrix} = \begin{bmatrix} 0.5 & 0.0 \\ 0.0 & 0.5 \end{bmatrix} \cdot \begin{bmatrix} 0 & 2 & 1 \\ 0.0 & 0.5 \end{bmatrix} = \begin{bmatrix} 0.5 & 0.0 \\ 0.0 & 0.5 \end{bmatrix} \cdot \begin{bmatrix} 0 & 2 & 1 \\ 0.0 & 0.5 \end{bmatrix} = \begin{bmatrix} 0.5 & 0.0 \\ 0.0 & 0.5 \end{bmatrix} \cdot \begin{bmatrix} 0.5 & 0.0 \\ 0.0 & 0.5 \end{bmatrix} = \begin{bmatrix} 0.5 & 0.0 \\ 0.0 & 0.5 \end{bmatrix} \cdot \begin{bmatrix} 0.5 & 0.0 \\ 0.0 & 0.5 \end{bmatrix} = \begin{bmatrix} 0.5 & 0.0 \\ 0.0 & 0.5 \end{bmatrix} \cdot \begin{bmatrix} 0.5 & 0.0 \\ 0.0 & 0.5 \end{bmatrix} = \begin{bmatrix} 0.5 & 0.0 \\ 0.0 & 0.5$$

$$(x'_{1},y'_{1})=(0,0); (x'_{2},y'_{2})=(1,0); (x'_{3},y'_{3})=(0.5,0.5)$$

