

UNIVERSIDADE ESTADUAL DE FEIRA DE SANTANA

Engenharia de Computação

Disciplina: TEC 431 – Computação Gráfica

Aluno: Henderson Souza Chalegre

Matricula: 12111176

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Glanderson Chalegra

12111176

Questão os

Alm 180 = 0

$$X' = -3$$

Questão of

$$\begin{bmatrix} \chi' \\ \gamma' \end{bmatrix} = \begin{bmatrix} 0,5 & 0 \\ 0 & 0,5 \end{bmatrix} \begin{bmatrix} \chi \\ \chi \end{bmatrix}$$

$$= \begin{bmatrix} 0,5 & 0 & 5 \\ 0 & 0,5 \end{bmatrix} \begin{bmatrix} 2 \\ 5 \end{bmatrix}$$

$$= \begin{bmatrix} 2(0,5) + 5(0) \\ 2(0) + 5(0,5) \end{bmatrix}$$

$$= \begin{bmatrix} 1 \\ 2,5 \end{bmatrix}$$

$$x' = 1$$

P'=[1;2,5]

Questão 03

Porto Pivo (x; y) (3;5)

Den 90 = 1

cos 90° = 0

a) $1 \circ 3$ $0,5 \circ 0$ $\cos 90^{\circ} - \sec 90 \circ 0$ $1 \circ -3$ MT = $0 \cdot 15$ $0 \cdot 0,5 \circ 0$ $\sec 90^{\circ} \circ 0$ $0 \cdot 1 - 5$ $0 \circ 1 \cdot 10 \circ 0$ $1 \cdot 10 \circ 1$

= \[\begin{aligned} 0,5 \\ 0 & \begin{aligned} 0 & -1 \\ 0 & \begin{aligned} 0 & -1 \\ 0 & \begin{aligned} 0 & \begin{aligned} 0 & -3 \\ 0 & \begin{aligned} 0 & \begin{aligned} 0 & \begin{aligned} 0 & -5 \\ 0 & \begin{aligned} 0 & 1 \\ 0 & \begin{

Alladorig

(b

$$MT = \begin{bmatrix} 0 & -0,5 & 5,5 \\ 0,5 & 0 & 3,5 \\ 0 & 0 & 1 \end{bmatrix}$$

Aplicando no ponto (1; 2)

$$\begin{bmatrix}
0 & -0.5 & 5.5 \\
0.5 & 0 & 3.5
\end{bmatrix}$$

$$\begin{bmatrix}
4,5 \\
2 & = 4,0 \\
1 & 1
\end{bmatrix}$$

Aplicando no ponto (2; 2,5)

$$\begin{bmatrix}
 0 & -5 & 5,5 \\
 0,5 & 0 & 3,5 \\
 0 & 0 & 1
 \end{bmatrix}
 \begin{bmatrix}
 2,5 \\
 2,5 \\
 1
 \end{bmatrix}
 \begin{bmatrix}
 4,25 \\
 4,5 \\
 1
 \end{bmatrix}$$

Aplicando no ponto (1.5; 5)

$$\begin{bmatrix} 0 & -5 & 5,5 \\ 0,5 & 0 & 3,5 \\ 0 & 0 & 1 \end{bmatrix} \begin{bmatrix} 1.5 \\ 5 \\ 1 \end{bmatrix} = \begin{bmatrix} 3,0 \\ 4,25 \\ 1 \end{bmatrix}$$

Questão 04

Ponto Pivo (2;1,-3)

$$MT = \begin{bmatrix} 1 & 0 & 0 & 2 \end{bmatrix} \begin{bmatrix} \cos 380 & 0 & \sec 180 & 0 \end{bmatrix} \begin{bmatrix} \cos 90 & 0 & \sec 90 & 0 \end{bmatrix} \begin{bmatrix} 1 & 00 & -2 \\ 0 & 1 & 0 & 1 \end{bmatrix} \begin{bmatrix} 0 & 1 & 0 & 0 \\ 0 & 0 & 1 & 3 \end{bmatrix} \begin{bmatrix} -1 & \cos 180 & 0 \\ 0 & 0 & 1 \end{bmatrix} \begin{bmatrix} \cos 380 & 0 \\ -1 & \cos 90 & 0 & \cos 90 \\ 0 & 0 & 0 \end{bmatrix} \begin{bmatrix} \cos 90 & \cos 90 & 0 \\ -1 & \cos 90 & 0 \end{bmatrix} \begin{bmatrix} \cos 90 & \cos 90 & 0 \\ -1 & \cos 90 & 0 \end{bmatrix} \begin{bmatrix} \cos 90 & \cos 90 & \cos 90 \\ -1 & \cos 90 & \cos 90 \\ 0 & 0 & 0 \end{bmatrix} \begin{bmatrix} \cos 90 & \cos 90 & \cos 90 \\ -1 & \cos 90 & \cos 90 \\ 0 & 0 & 0 \end{bmatrix} \begin{bmatrix} \cos 90 & \cos 90 & \cos 90 \\ -1 & \cos 90 & \cos 90 \\ 0 & \cos 9$$

=	0	0	-1	57	
	O	1	0	0	Resultado da
	1	0	0	1	Matriz
L	0	0	0	1	

$$\begin{bmatrix}
0 & 0 & -1 & 5 & 7 & 1 \\
0 & 1 & 0 & 0 & 2 & = & 2 \\
1 & 0 & 0 & 1 & 1 & 5 & 2 \\
0 & 0 & 0 & 1 & 1 & 1 & 1
\end{bmatrix}$$

* Ponto (4; 2,5;5)

