

Notas sobre coisas do Willian Velasco

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<https://anggtwu.net/math-b.html>

Composition and two actions

$$\underbrace{\underbrace{(1\ 2)}_{\substack{2 \leftarrow 1 \\ 3 \leftarrow 3 \\ 1 \leftarrow 2}} \cdot \underbrace{(2\ 3)}_{\substack{1 \leftarrow 1 \\ 3 \leftarrow 2 \\ 2 \leftarrow 3}}}_{\substack{2 \leftarrow 1 \\ 3 \leftarrow 2 \\ 1 \leftarrow 3}} (1\ 2\ 3)$$

$$\underbrace{\underbrace{(1\ 2)}_{\substack{2 \leftarrow 1 \\ 3 \leftarrow 3 \\ 1 \leftarrow 2}} \cdot \underbrace{(2\ 3)}_{\substack{1 \leftarrow 1 \\ 3 \leftarrow 2 \\ 2 \leftarrow 3}}}_{\substack{1 \\ 2}} \cdot 1$$

$$\underbrace{\underbrace{(1\ 2)}_{\substack{2 \leftarrow 1 \\ 3 \leftarrow 3 \\ 1 \leftarrow 2}} \cdot \underbrace{(2\ 3)}_{\substack{1 \leftarrow 1 \\ 3 \leftarrow 2 \\ 2 \leftarrow 3}}}_{\substack{\begin{bmatrix} 1 \\ 3 \\ 2 \end{bmatrix} \\ \begin{bmatrix} 2 \\ 3 \\ 1 \end{bmatrix}}} \cdot \begin{bmatrix} 1 \\ 2 \\ 3 \end{bmatrix}$$

$$\underbrace{\underbrace{(1\ 2)}_{\substack{2 \leftarrow 1 \\ 3 \leftarrow 3 \\ 1 \leftarrow 2}} \cdot \underbrace{(2\ 3)}_{\substack{1 \leftarrow 1 \\ 3 \leftarrow 2 \\ 2 \leftarrow 3}}}_{\substack{3 \\ 3}} \cdot 2$$

$$\underbrace{\underbrace{(1\ 2)}_{\substack{2 \leftarrow 1 \\ 3 \leftarrow 3 \\ 1 \leftarrow 2}} \cdot \underbrace{(2\ 3)}_{\substack{1 \leftarrow 1 \\ 3 \leftarrow 2 \\ 2 \leftarrow 3}}}_{\substack{2 \\ 1}} \cdot 3$$