## Robation

$$f'(\alpha', y') = f(r(\cdot s(\theta \cdot \theta')), r \sin(\theta \cdot \theta'))$$

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$$f'(x',y')$$
:

$$x' = r \cos \theta \cos \theta' - r \sin \theta' = x \cos \theta' - y \sin \theta'$$

$$y' = r \sin \theta \cos \theta' + r \cos \theta \sin \theta' = x \cos \theta' + x \sin \theta'$$

$$(-1) \text{ in } x = x \cos \theta' + x \sin \theta'$$

: Rotation de de institution

$$T: A^{\prime} \to A^{\prime\prime} \qquad \begin{bmatrix} c.s\theta' & -sin\theta' \\ cs\theta' & sin\theta' \end{bmatrix} \begin{bmatrix} x \\ y \end{bmatrix} = \begin{bmatrix} x' \\ y' \end{bmatrix}$$

ترين: الْكِنْ نِيْدَ تَدَيْنَ فِيهُ مِنْ سَدِيلُ هَمْ مَعَمَّ مَعَى مَعْدِ اللهِ الْكِنْ تَدِيلُ خَلَّى وَادَهُ مُعَالًا)

$$(\vec{v})_{7} + (\vec{v})_{7} = (\vec{v} + \vec{\omega})_{7}$$

$$2) c \tau(\overline{\sigma}) = \tau(c\overline{\sigma})$$

$$=> (\vec{0}, (\vec{0}) + (\vec{0}) + (\vec{0}) + (\vec{0})$$