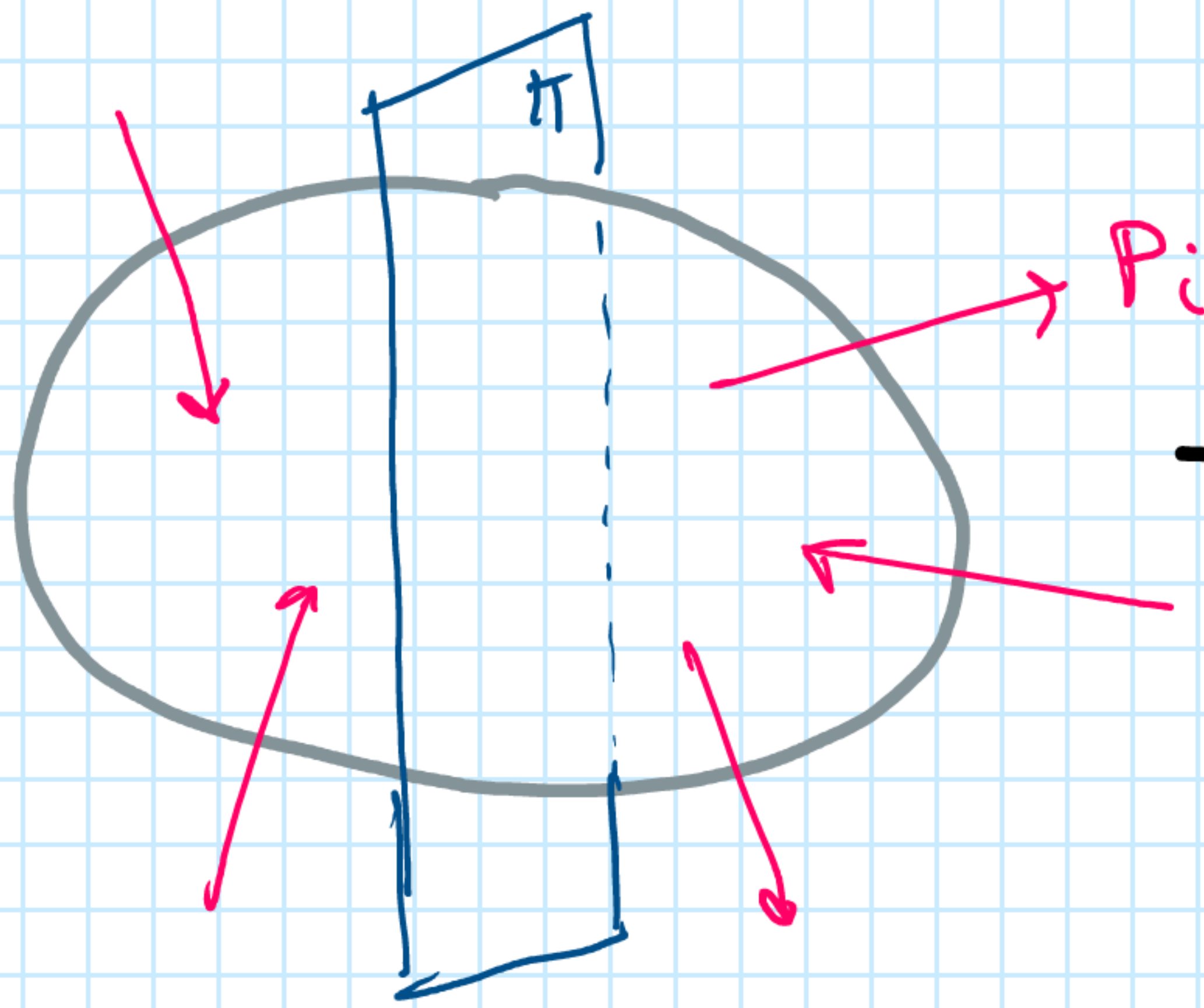
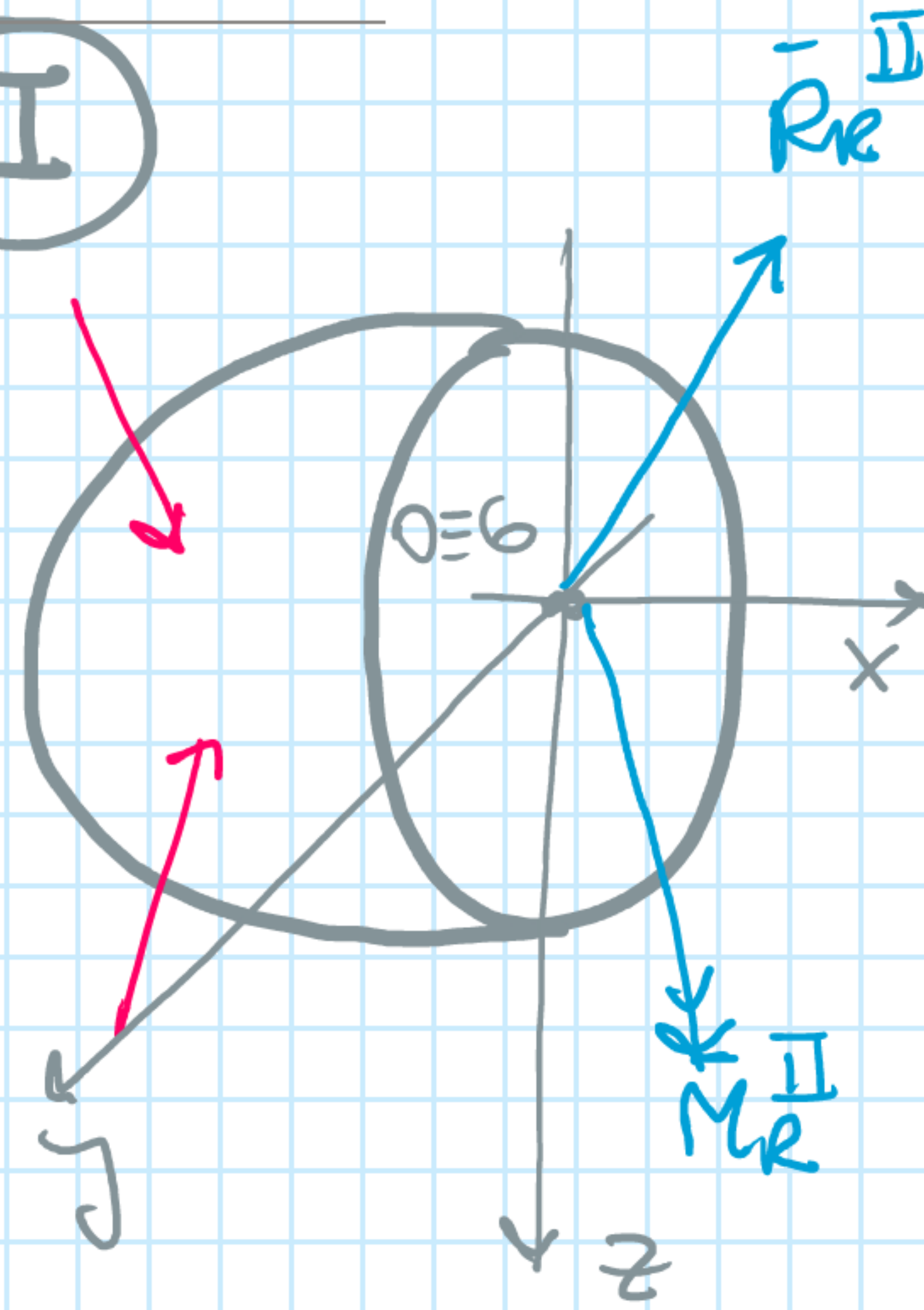


# 00.05 - ECUACIONES DE EQUIVALENCIA:

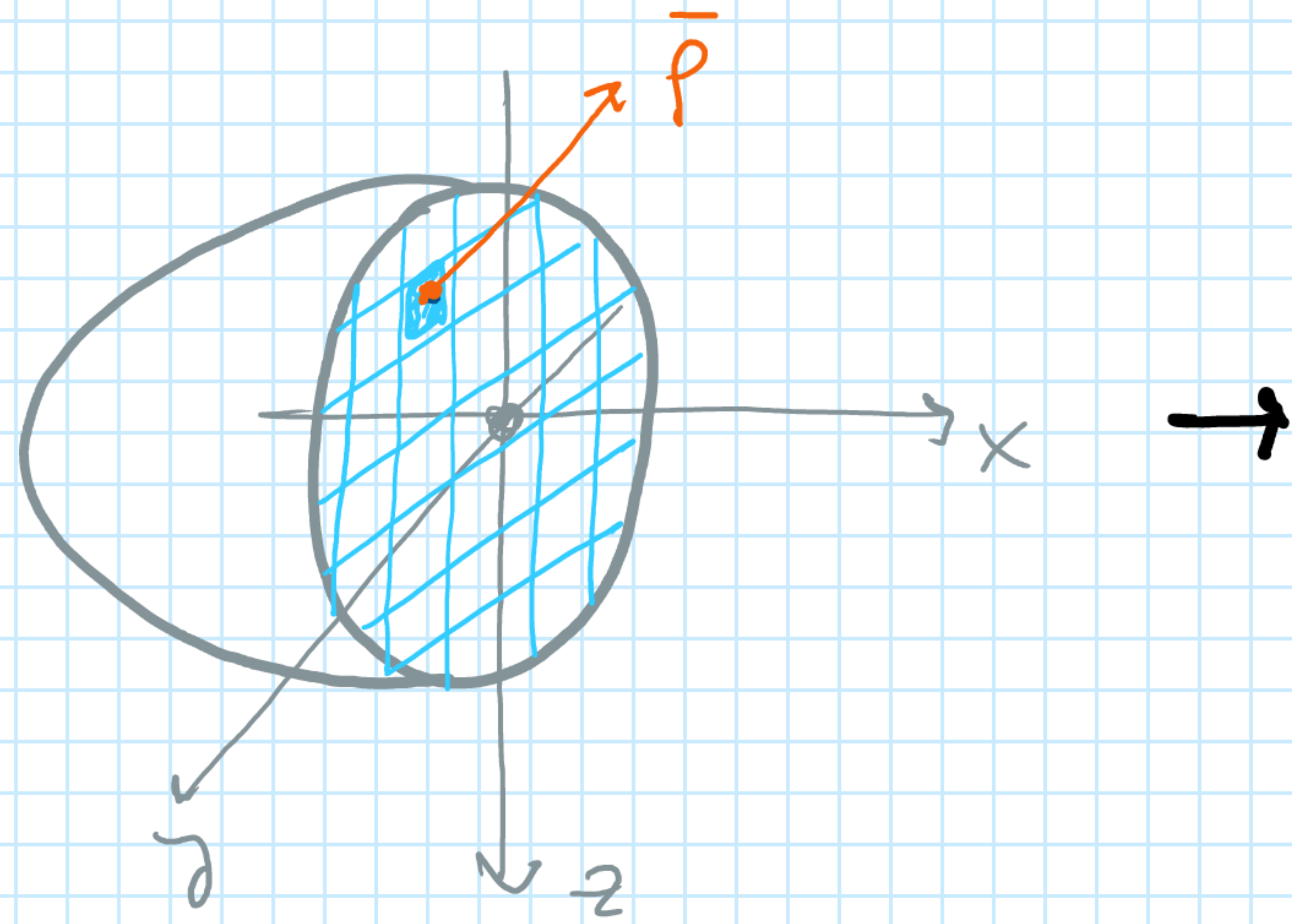
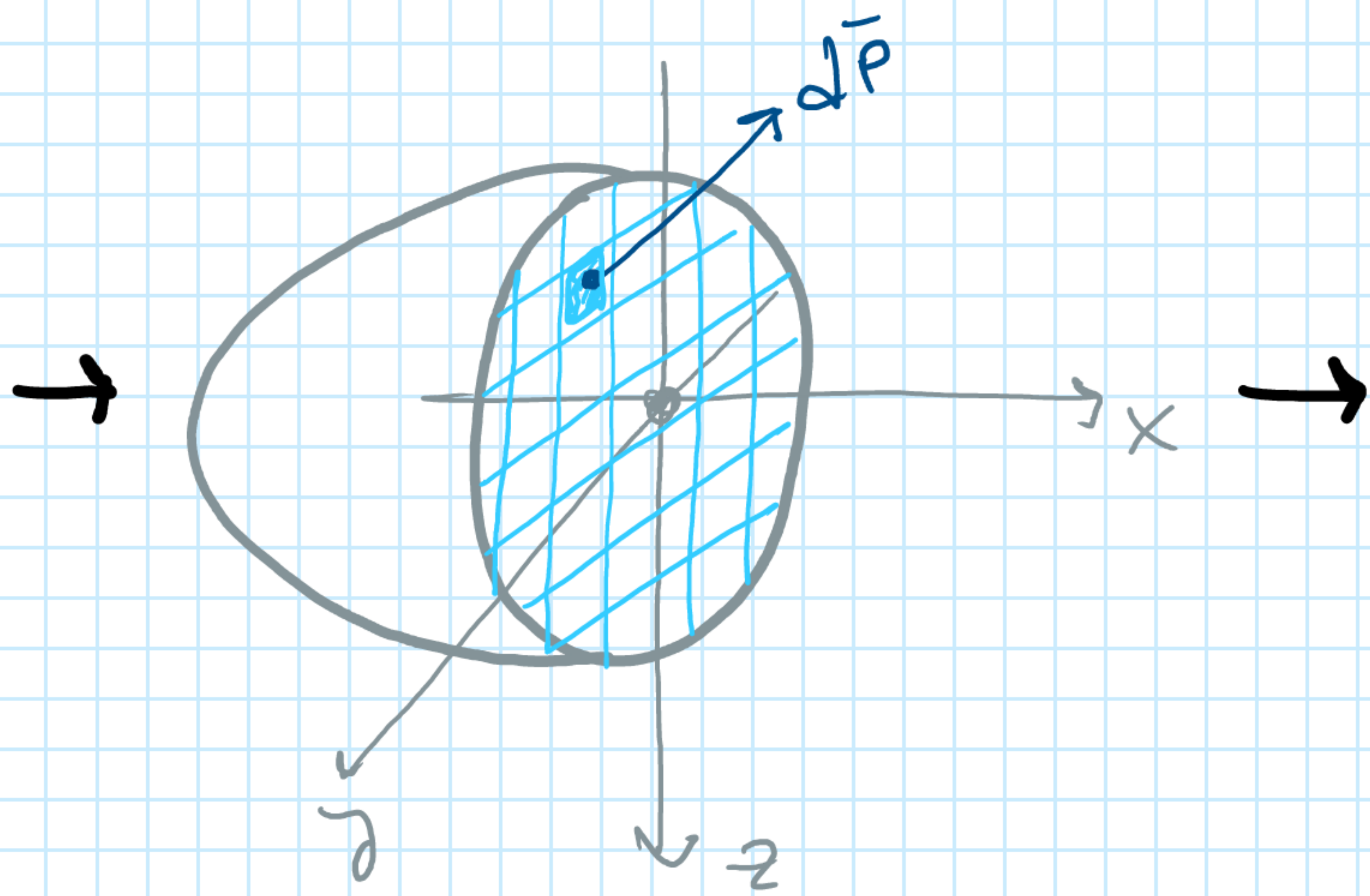
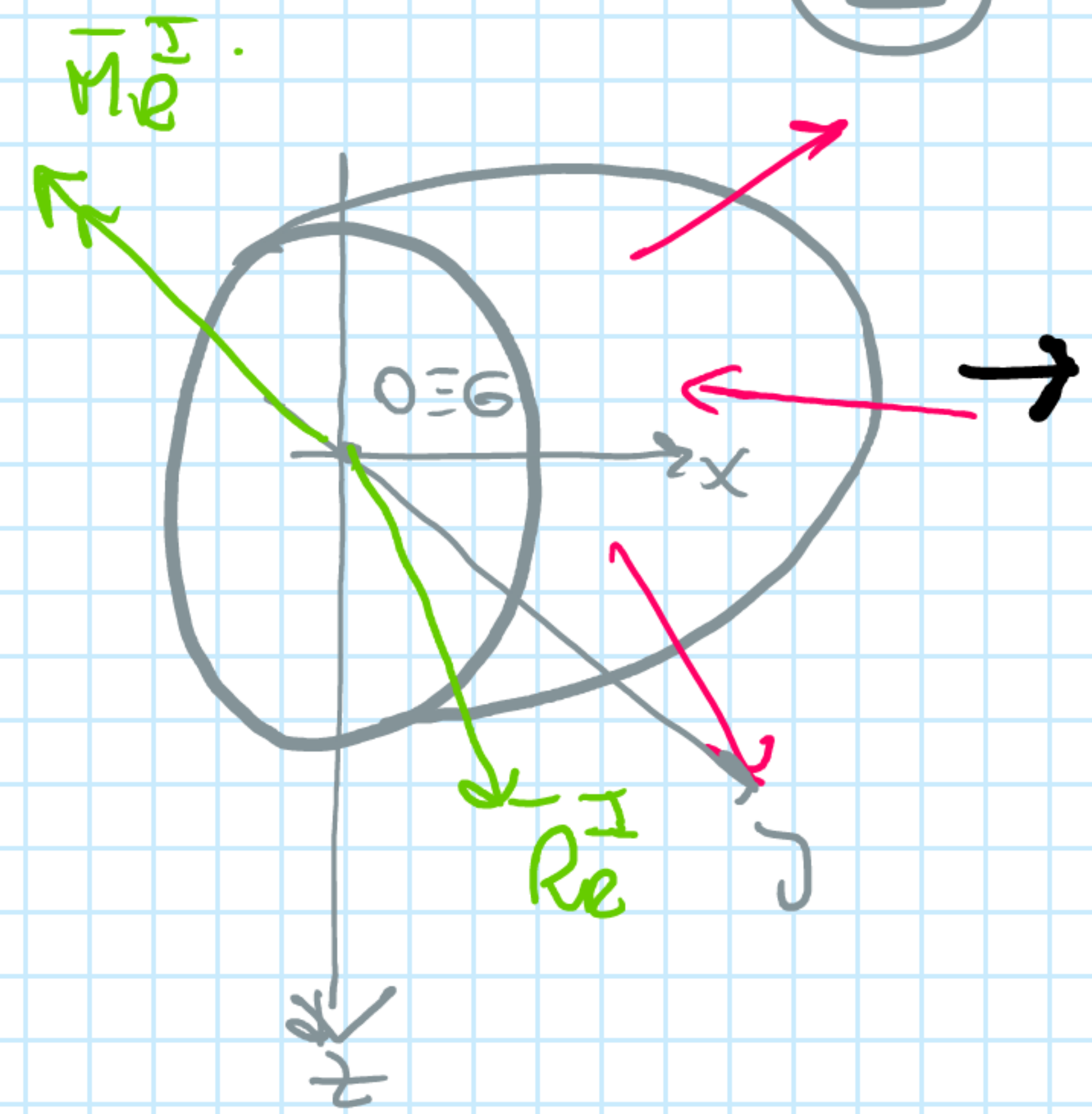
martes, 14 de septiembre de 2021 11:43



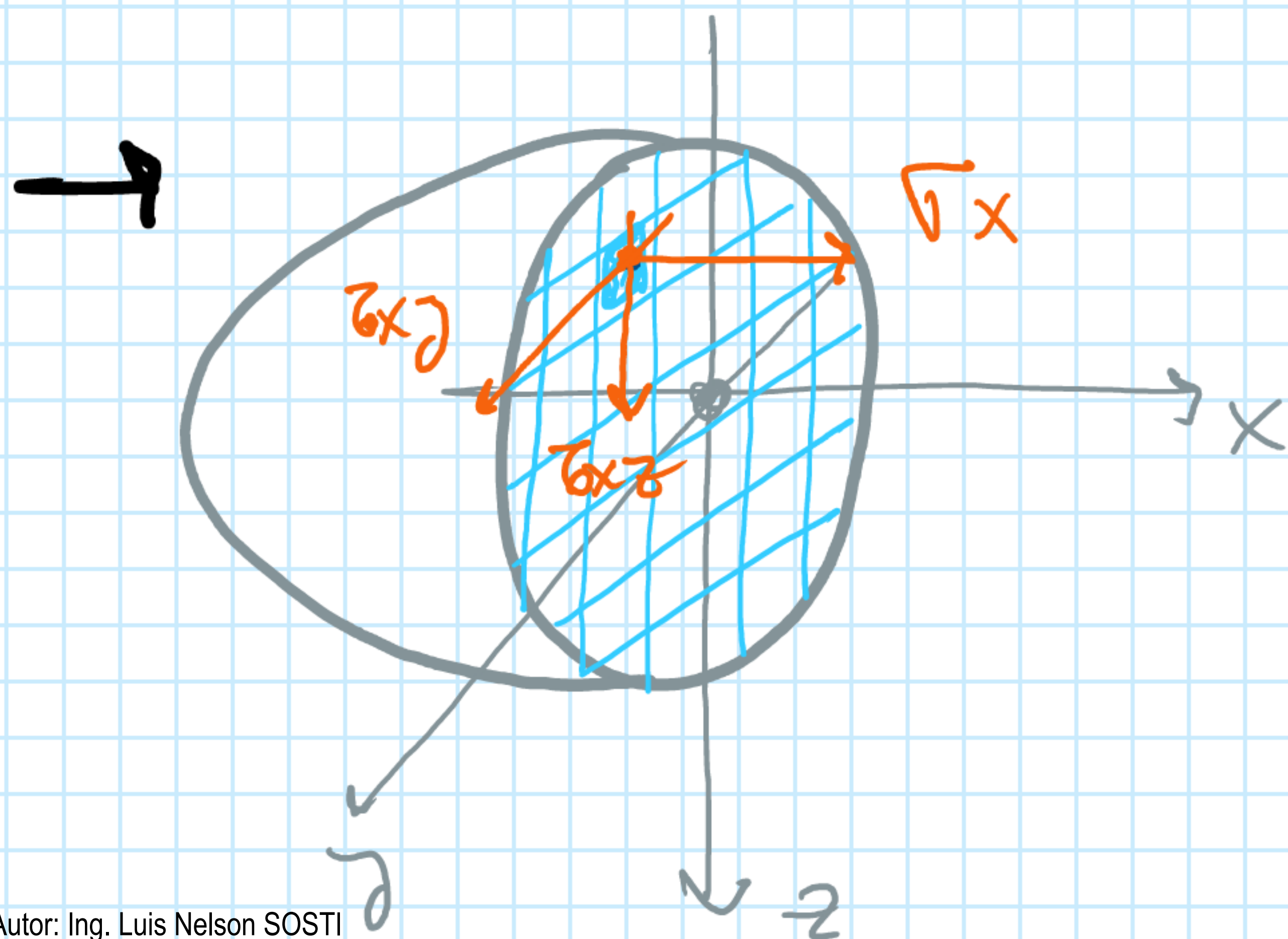
(I)



(II)

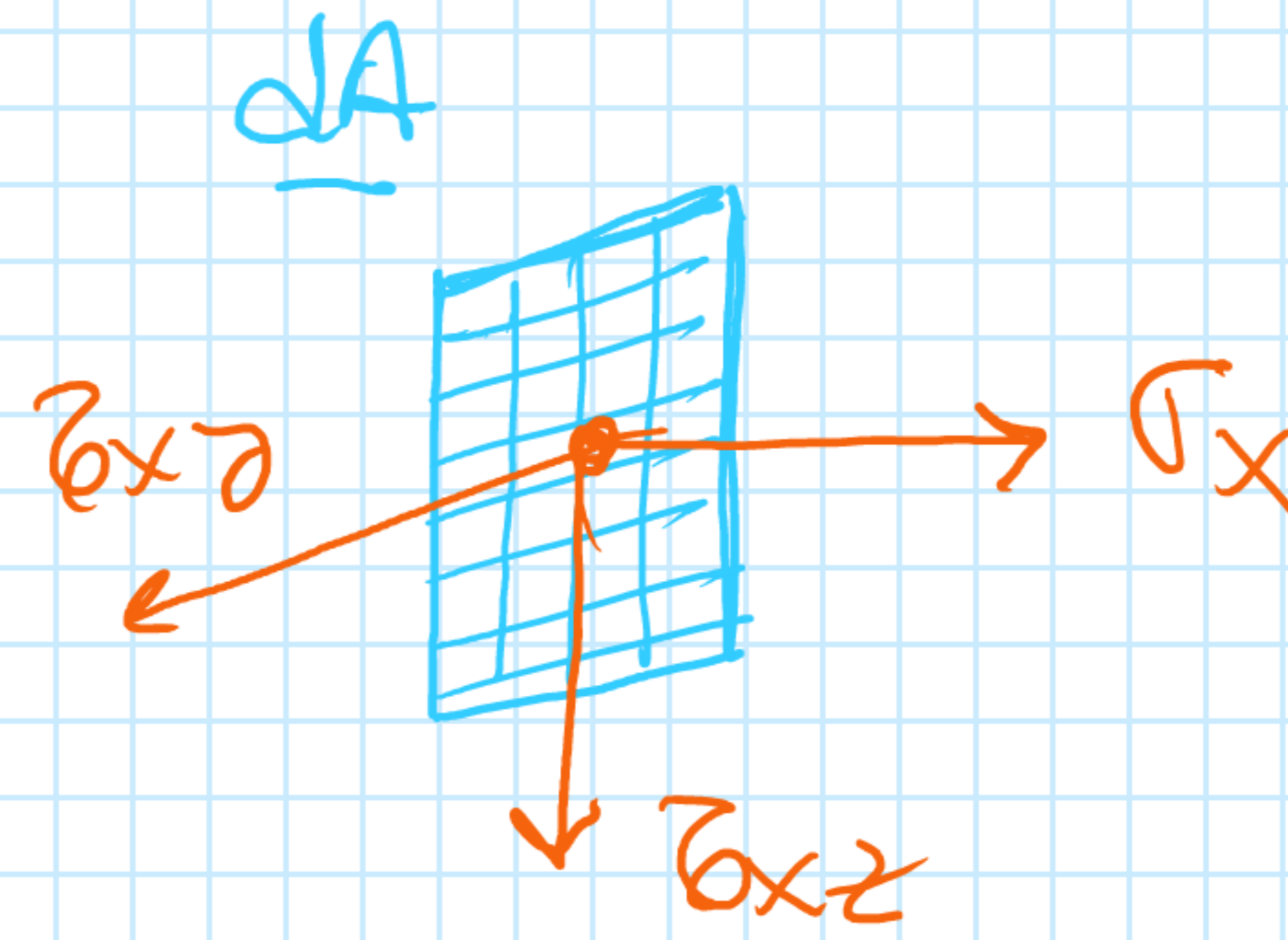
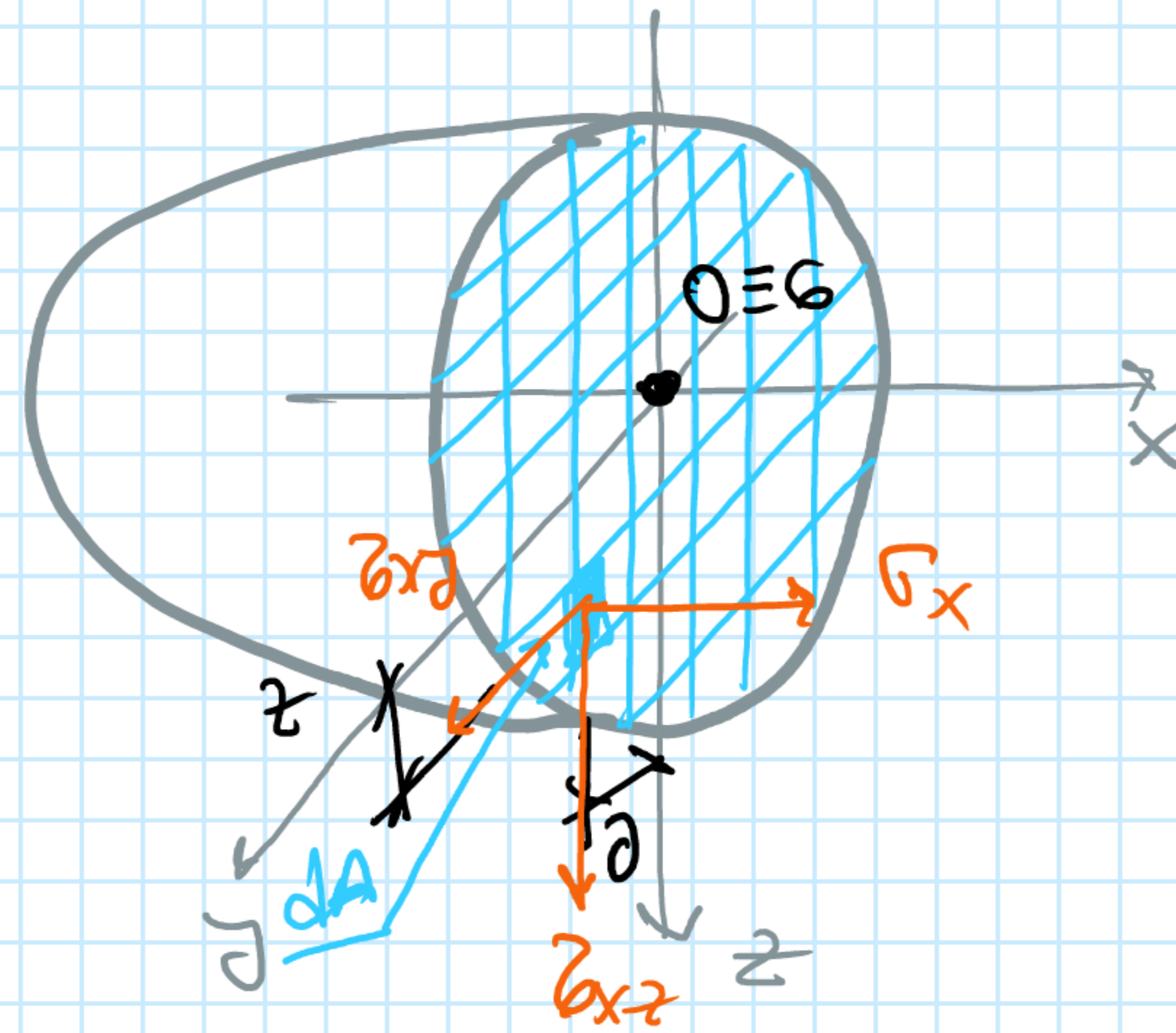
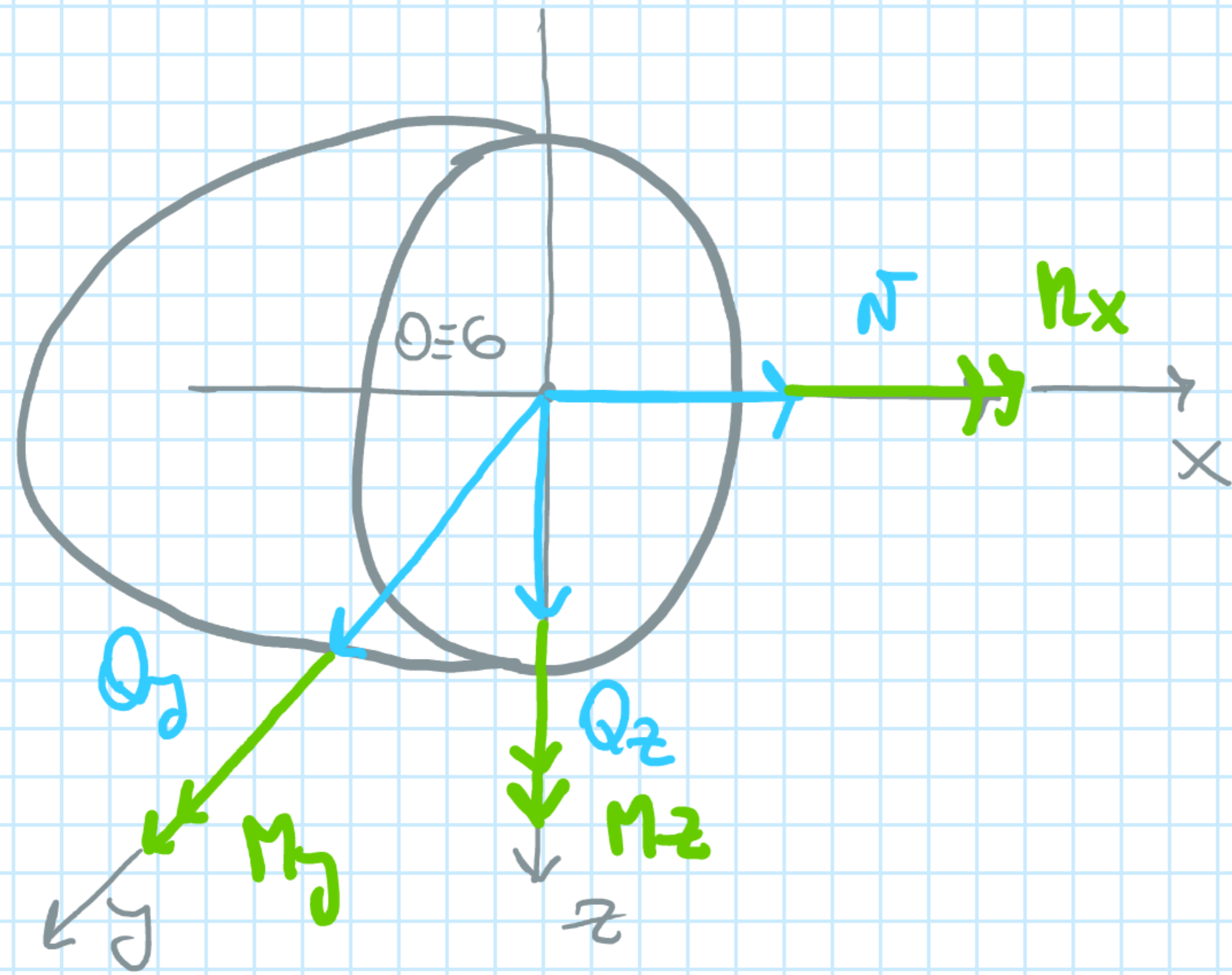


Las Ecuaciones de Equivalencia son las expresiones que vinculan a los esfuerzos internos con las tensiones.



# 00.05 - ECUACIONES DE EQUIVALENCIA:

martes, 14 de septiembre de 2021 11:54



EJE	PROYECCIÓN	MOMENTO.
X	$N = \int_A \underbrace{\sigma_x \cdot dA}_{dN} \quad \textcircled{\text{I}}$	$M_x = \int \underbrace{-\tau_{xy} \cdot dA \cdot z}_{dM_x} + \underbrace{\tau_{xz} \cdot dA \cdot y}_{dM_x}$
Y	$Q_y = \int_A \underbrace{\tau_{xy} \cdot dA}_{dQ_y} \quad \textcircled{\text{II}}$	$M_x = \int_A (-\tau_{xy} \cdot z + \tau_{xz} \cdot y) dA \quad \textcircled{\text{III}}$
Z	$Q_z = \int_A \underbrace{\tau_{xz} \cdot dA}_{dQ_z} \quad \textcircled{\text{III}}$	$M_y = \int_A \underbrace{\sigma_x \cdot dA \cdot z}_{dM_y} = \int_A \sigma_x \cdot z \cdot dA \quad \textcircled{\text{IV}}$
		$M_z = \int_A \underbrace{-\sigma_x \cdot dA \cdot y}_{dM_z} = \int_A -\sigma_x \cdot y \cdot dA \quad \textcircled{\text{V}}$