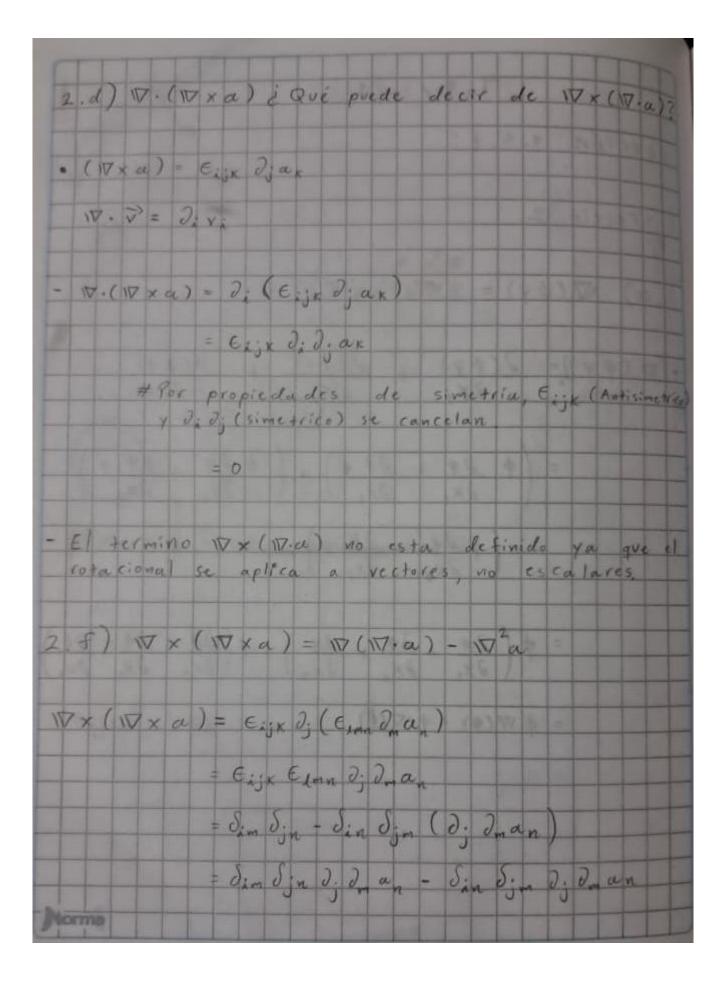
Taller #1
sección 1.5.7:
Ejercicio 2
2. a) $\nabla (\phi \psi) = \psi \nabla (\phi) + \phi \nabla (\psi)$
$ \cdot \left[\sqrt{(\phi \psi)} \right] = \frac{\partial (\phi \psi)}{\partial x_1} + \frac{\partial (\phi \psi)}{\partial x_2} + \frac{\partial (\phi \psi)}{\partial x_3} $
$= \left(\begin{array}{cccccccccccccccccccccccccccccccccccc$
$+\left(\phi\frac{\partial\psi}{\partial x_3}+\frac{\partial\phi}{\partial x_5}\psi\right)$
$= \phi \left(\frac{\partial \psi}{\partial x_1} + \frac{\partial \psi}{\partial x_2} + \frac{\partial \psi}{\partial x_3} \right) + \psi \left(\frac{\partial \phi}{\partial x_1} + \frac{\partial \phi}{\partial x_2} + \frac{\partial \phi}{\partial x_3} \right)$
$= \phi \vee \nabla(\psi) + \psi \vee \nabla(\phi)$



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