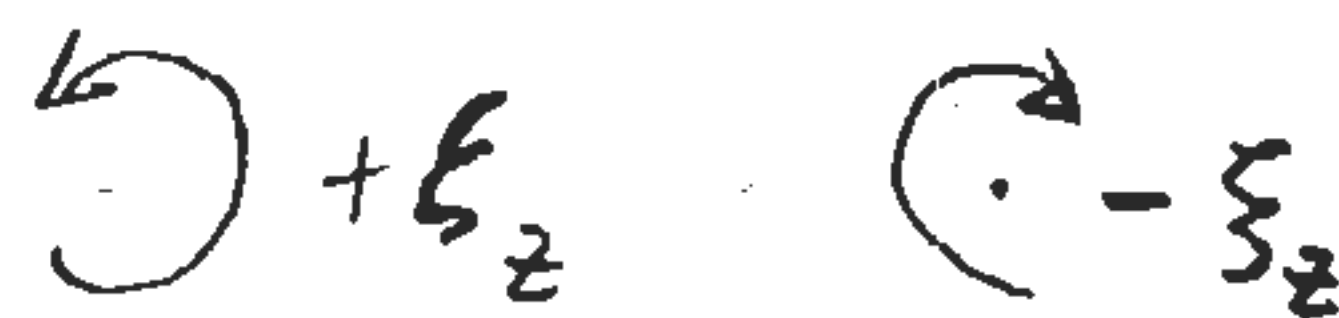


a) $u = Cy \quad v = 0$

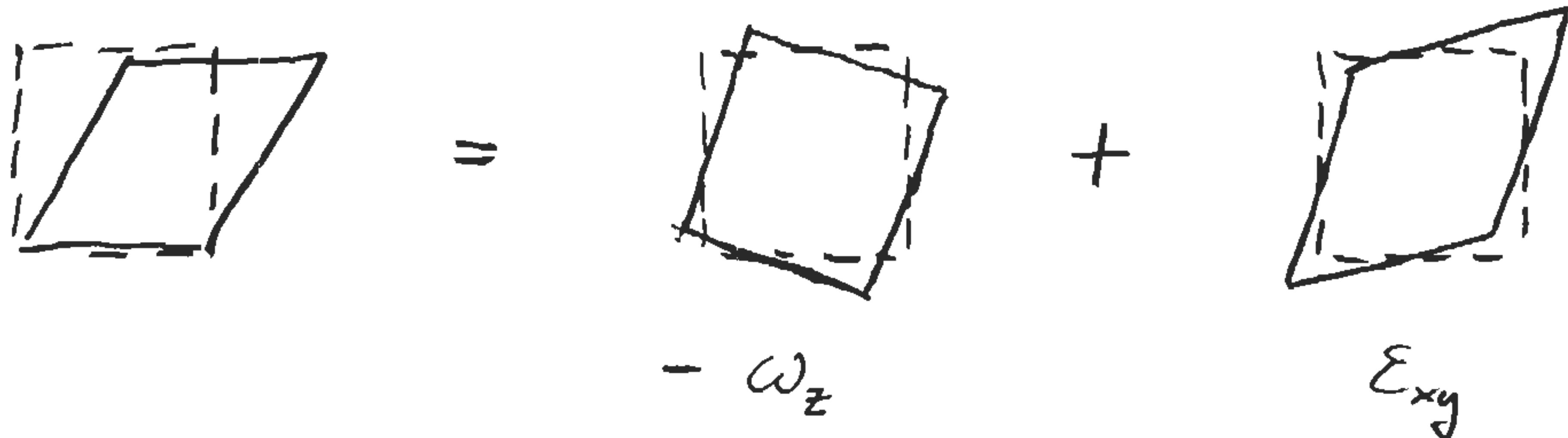
$$\xi_z = \frac{\partial v}{\partial x} - \frac{\partial u}{\partial y} = -C$$



or, $\omega_z = \frac{1}{2} \xi_z = -\frac{1}{2} C$

$$\epsilon_{xy} = \frac{1}{2} \left(\frac{\partial u}{\partial y} + \frac{\partial v}{\partial x} \right) = \frac{1}{2} C$$

b) Simple shearing motion, which is a 50-50 combination of rotation and shear



$$\frac{\partial u}{\partial y} = -\frac{1}{2} \left(\frac{\partial v}{\partial x} - \frac{\partial u}{\partial y} \right) + \frac{1}{2} \left(\frac{\partial u}{\partial y} + \frac{\partial v}{\partial x} \right)$$

$$C = - \left(-\frac{1}{2} C \right) + \frac{1}{2} C$$

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