Start with Green's 25 Theorem and subtract the same with \$40000

but the LHS is also written as

 $\int \phi \, \rho \, \psi \, , \, \hat{\eta} \, ds = \int \int \left(\phi \, \rho \, \psi - \psi \, \sigma \, \phi \right) \, , \, \hat{\eta} \, ds = \int \int \left(\phi \, \rho \, \psi - \psi \, \sigma \, \phi \right) \, , \, \, \hat{\eta} \, ds$

Thus

 $\int (\phi D^2 \psi - \psi \sigma^2 \phi) d\nu = \int (\phi \sigma \psi - \psi \sigma \phi) \cdot \vec{\sigma} dS$