$$i\hbar \partial_{+}A = \frac{-\hbar^{2}}{2m} \times 2 \overrightarrow{\nabla} A \overrightarrow{\nabla} S - \frac{\hbar^{2}}{2m} A \nabla^{2} S$$
 (2)

(1) Neglect termin
$$\nabla^2 A$$
.