$$\frac{d^{2}C'}{dx^{2}} = \frac{d}{dx^{2}} \left(\frac{dC'}{dx^{2}} \right) = Pe \frac{dC''}{dx^{2}}$$

$$\int \frac{dC''}{dx^{2}} = \int Pe dx^{2}$$

$$In \left(\frac{dC''}{dx^{2}} \right) = Pe x^{2} + A$$

$$\frac{dC''}{dx^{2}} = e^{A} e^{Re x^{2}}$$

$$\int dC'' = e^{A} e^{Re x^{2}} dx^{2}$$

$$\int dC'' = e^{A} e^{Re x^{2}} + B$$

$$C'' = k e^{Re x^{2}} + B$$

$$P_{1} = P_{2} = P_{1} = P_{2} = P_{3} = P_{4} = P_{4$$