① 
$$\frac{d^2y}{dx^2} + 5\frac{dy}{dx} - 3y(x) = 4x^2 - 2x + 6$$
,  $y(0) = 1 + y'(0) = 2$ 

(2) 
$$4\frac{d^2y}{dx^2} - 3\frac{dy}{dx} + 2y(x) = 4x + 1$$
,  $y(0) = 32 y'(0) = 1$ 

$$3 2 \frac{d^{2}x}{dx^{2}} + 5 \frac{dx}{dx} + 3y(x) = 3e^{5x} + 2e^{3x}, y(0) = 5 \perp y'(0) = 2$$

$$\frac{d^2x}{dx^2} + 2\frac{dy}{dx} - 5y(x) = ysen(x) + 2cos(x)$$

$$68\frac{d^{2}y}{dx^{2}} + 10\frac{dy}{dx} + 3y(x) = 5x + 6$$

$$\begin{cases}
\frac{dx^2}{dx^2} + 4\frac{dy}{dx} + \frac{10y(x)}{2} = x^2 \cos 2x
\end{cases}$$

$$8 \frac{d^2x}{dx^2} + 10y(x) = 10e^x$$

$$9 \frac{d^2y}{dx^2} + 5 = 3x$$