

1.2

$$11.) c_1 e^x + c_2 e^{-x} = \gamma$$

$$y'' - \gamma = 0$$

$$y(0) = 1, \quad y'(0) = 2$$

$$y = c_1 e^x + c_2 e^{-x}$$

$$y' = c_1 e^x - c_2 e^{-x}$$

$$\Rightarrow y(0) = c_1 e^0 + c_2 e^0 = 1$$

$$y'(0) = c_1 e^0 - c_2 e^0 = 2$$

$$\Rightarrow c_1 + c_2 = 1 \quad \left\{ \begin{array}{l} \frac{3}{2} + c_2 = 1 \\ c_2 = -\frac{1}{2} \end{array} \right.$$

$$\oplus \frac{c_1 - c_2 = 2}{2c_1 = 3}$$

$$2c_1 = 3$$

$$\Rightarrow c_1 = \frac{3}{2}$$

$$\frac{3}{2} + c_2 = 1 \quad | \quad -x$$