

$$\Rightarrow \sqrt{4} = \frac{163}{24} \Rightarrow 4 = \frac{163}{24}$$

$$|C_2 = \frac{8}{29} \frac{EI}{qL^4} + \frac{6}{19} \frac{EI}{qL^4} = (87 + 76) \frac{EI}{qL^4} = \frac{163}{163} \frac{EI}{24} = \frac{163}{24} \frac{EI}{qL^4}$$

$$\textcircled{2} \quad qL^3 + C_1 = -\frac{3}{2} \frac{EI}{qL^3} \quad |C_1 = -\frac{6}{19} \frac{EI}{qL^3}$$

$$\textcircled{1} \quad \left. \begin{aligned} -\frac{8}{29} \frac{EI}{qL^4} + C_1 L + C_2 = 0 \\ \frac{8}{EI} qL^4 - \frac{4}{15} \frac{EI}{qL^4} + C_1 L + C_2 = 0 \end{aligned} \right\}$$

$$\frac{qL^4}{24EI} (1 - 4 + 6) + C_1 L + C_2 + 3 \frac{EI}{qL^4} - \frac{4}{27} \frac{EI}{qL^4} = 0$$

$$- \frac{qL^4}{162} + C_4 = 0 \quad |C_4 = \frac{27}{4} \frac{EI}{qL^4}$$

$$\frac{qL^4}{24EI} (27 \cdot 4 - 9 \cdot 6 - 9 \cdot 24) + C_4 = 0$$

$$|C_3 = -\frac{6}{2} \frac{EI}{qL^3} = -\frac{3}{1} \frac{EI}{qL^3}$$

$$\textcircled{4} \quad -\frac{qL^3}{2EI} - \frac{3}{2} \frac{EI}{qL^3} + C_3 = 0$$

$$\textcircled{3} \quad qL^2 L^3 - \frac{6EI}{4EI} qL^2 + C_3 3L + C_4 = 0$$

$$\textcircled{4} \quad \phi'' = 0$$

$$\textcircled{3} \quad \phi' = 0 \quad | \phi = 3L$$

②