

hence $\begin{pmatrix} x_1 \\ x_2 \end{pmatrix} = \begin{pmatrix} 1 & 2 \\ -3 & 1 \end{pmatrix} \begin{pmatrix} \frac{4}{3}e^{2t} + Ce^{7t} \\ \frac{5}{3}e^{2t} + De^{14t} \end{pmatrix}$

1/1

$$x_1 = 2e^{2t} + Ce^{7t} + 2De^{14t}$$

$$x_2 = -e^{2t} - 3Ce^{7t} + De^{14t}$$

✓
✓

1/1

good