Q 1 Solve $y'' - 10y' + 25y = 0$ subject to $y(0) = 3$, $y'(0) = 13$.

Q 2. Give ODEs whose solutions are:

(a): $y = \alpha e^{2x} - \beta e^{-2x}$

(b): $y = \alpha + \beta x$

(c): $y = (\alpha e^{2x} + \beta e^{-2x})e^x$