ERRATA TO EXAM 2 A–D SOLUTIONS

Exam 4A, Q7 The integrating factor (y) given in the solutions is correct, but the second sentence of the solution has a typo. The solution should say "$M_y - N_x = \frac{-1}{y}$ so $\frac{M_y - N_x}{-M} = \frac{1}{y}$ is a function of y only and $\mu = e^{\int 1/y \ dy} = e^{\ln y} = y$.

Exam 4A, Q22 The correct answer is not listed as a multiple choice option, and the part of the solution beginning: "Hence $y(0) = a + b = \ldots$" is incorrect. It should read "Hence $y(0) = a = 1$ and $y'(0) = b - a = 0$ so $a = b = 1$. Hence $y = e^{-t}(1 + t)$ and so $y(1) = \frac{2}{e}$". The correct answer is $2/e$.

Exam 4B, Q3 There are typos in the matrices in the solution. The 11s in the first two matrices in the solution should be 1s and the 5 in the last row of the third matrix should be -5.