

MATH 251
Exam I
February 26, 2009

ANSWER KEY

1. (a) H (b) D (c) E
2. C
3. D
4. A
5. A
6. D
7. A
8. C
9. A
10. C
11. C
12. (a) $y_c = C_1 e^{-t} + C_2 t e^{-t}$ (b) C (c) B (d) E
13. (a) $k = 9$ (b) $\mu = 4$ (c) False
14. $y = \frac{t \sin(t) + \cos(t) + 1}{t^2}$
15. $y = C_1 t^3 + C_2 t^3 \ln(t)$