Math 1229A Test 2, November 2017
Answers – Code 111

Part A

  1. E 2. D 3. B 4. C 5. D 6. A

  7. A 8. B 9. B 10. E 11. B 12. C

  13. E 14. D 15. A 16. E 17. C 18. D

Part B

19. (a) $\left[\begin{array}{ccc|c} 1 & 0 & 0 & 4 \\ 0 & 1 & 0 & 7 \\ 0 & 0 & 1 & 0 \end{array}\right]$, $(4, 7, 0)$ (b) $\left[\begin{array}{ccc|c} 1 & -1 & 1 & 0 \\ 0 & 0 & 0 & 1 \\ 0 & 0 & 0 & 0 \end{array}\right]$, no solution

(c) $\left[\begin{array}{ccc|c} 1 & -1 & 0 & -1 \\ 0 & 0 & 1 & 2 \\ 0 & 0 & 0 & 0 \end{array}\right]$, $(-1 + t, t, 2)$

20. $A^{-1} = \left[\begin{array}{ccc} 7 & -4 & 2 \\ -2 & 1 & 0 \\ 3 & -2 & 1 \end{array}\right]$