

**Math 1229A Test 2, November 2018**  
**Answers – Code 111**

Part A

- |     |   |     |   |     |   |     |   |     |   |     |   |
|-----|---|-----|---|-----|---|-----|---|-----|---|-----|---|
| 1.  | B | 2.  | C | 3.  | D | 4.  | B | 5.  | D | 6.  | B |
| 7.  | E | 8.  | A | 9.  | E | 10. | D | 11. | C | 12. | A |
| 13. | A | 14. | E | 15. | C | 16. | D | 17. | B | 18. | A |

Part B

19. (a)  $\left[ \begin{array}{cccc|c} 1 & -2 & 0 & 1 & 2 \\ 2 & -4 & -3 & -4 & 1 \\ 1 & -2 & -3 & -5 & -1 \end{array} \right]$

(b)  $\left[ \begin{array}{cccc|c} 1 & -2 & 0 & 1 & 2 \\ 0 & 0 & 1 & 2 & 1 \\ 0 & 0 & 0 & 0 & 0 \end{array} \right]$

(c)  $(x_1, x_2, x_3, x_4) = (2 + 2s - t, s, 1 - 2t, t)$

20.  $A^{-1} = \left[ \begin{array}{ccc} 5 & 2 & 0 \\ 3 & 0 & -1 \\ 1 & -1 & -1 \end{array} \right]$

21. The  $2 \times 2$  zero matrix