**Math 1 Chapter A Practice Test Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Hour\_\_\_\_\_\_**

**Show your work if you expect to receive full or partial credit. Place your answer in the space provided.**

**Solve each matrix equation.**

1. B + = 2. C – = 1. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

2.\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Find the value of each variable.**

3. = 4. = 3.\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

4.\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**For questions 5 – 12, use the following matrices to perform each operation.**

**A = B = C= D=**

5. Find 2A 6. Find A + B 7. Find D – C 5.\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

6.\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

7.\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

8.\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

8. Find AC 9. Find 3BD 10. Find (A+B)D 9.\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

10.\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

11.\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

11. Find detA 12. Find 13. Find detB 12.\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

13.\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

14. Find 14.\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Solve each system of equations using matrices.

15. 2x - 5y = 5 16. 2x – y = 7 15.\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

x – y = 4 -4x + 2y = -14

16.\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

17. 2x + 5y = 7 17.\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

3x - y = 5

**Find the Determinant. Find the inverse matrix.** 18.\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

18. 19.

19. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_