**Secondary I Honors Matrices Unit** Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Identity and Inverse Matrices** Hour\_\_\_\_\_\_\_\_\_\_\_

1. Find if 2. What is used for? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

3. Why do we use inverses of 4. Write a 4X4 identity matrix.

matrices?

**For each matrix state if an inverse exists**

6.

7. 8.

**Find the inverse of each matrix**

9. 10.

11. 12.

13. 14.

15. 16.

17. 18.

Solve for x.

19. 20.