Math 4 Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**2-1 and 2-2 Learn Check** Date \_\_\_\_\_\_\_\_\_\_

*No Calculator*

***Use the following matrices for problems 1 – 4. Read each question and circle the best answer.***

  

1.  A.  B.  C.  D.  E. Not Possible or None of These

2.  A.  B.  C. 

D.  E. Not Possible or None of These

3.  A.  B. 

C.  D. 

E. Not Possible or None of These

4. Circle the matrix that could possibly have a multiplicative inverse. *M Q P*

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5. =

In numbers 6 – 9, use the below matrices to decide if the given matrix multiplication is possible. If it is possible, give the **dimension of the product matrix**. If it is not possible, **explain why**.

*YOU DO NOT HAVE TO MULTIPLY THE MATRICES!!!*

   

6.  7. 

8.  9. 

10. Given the matrix equation below, solve for *a* and *b*.



11. Given  Does ? Explain why or why not.