

Name: : _____

Lesson 0 Warm Up Quiz

Class Number: _____

Math 2B: Applied Linear Algebra

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1. State the applied math modeling process. Explain where matrices and vectors arise in this applied mathematical modeling process.
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2. State the Matrix-Vector Multiplication problem (MVMP). Specifically identify the given information and what is unknown. Make sure to state the dimensions of all quantities in this problem statement
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3. State the Nonsingular Linear-Systems problem (NLSP). Specifically identify the given information and what is unknown. Make sure to state the dimensions of all quantities in this problem statement
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4. How are the MVMP and the NSLP problems related? How are these problems similar? How do these problems different?
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5. State the General Linear-Systems problem (GLSP). Specifically identify the given information and what is unknown. Make sure to state the dimensions of all quantities in this problem statement
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6. State the Full-Rank Least-Squares problem (FRLSP). Specifically identify the given information and what is unknown. Make sure to state the dimensions of all quantities in this problem statement
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7. How are the GLSP and the FRLSP problems related? How are these problems similar? How do these problems different?
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8. State the Standard Eigenvalue problem (SEP). Specifically identify the given information and what is unknown. Make sure to state the dimensions of all quantities in this problem statement