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| Assessment 1Dusty Wilson Math 220 No work = no credit | **Name**: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  *Suppose a contradiction were to be found in the axioms of set theory. Do you seriously believe that a bridge would fall down?* Frank Ramsey 1903 – 1930 (English mathematician) |

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| Warm-ups (1 pt each): | =\_\_\_\_\_ | =\_\_\_\_\_ | =\_\_\_\_\_ |

(1 pt) In addition to infinity, one of the topics in the philosophy of math is called “axiomatic set theory.” According to Ramsey (above), how seriously ought we be concerned by the possibility of a contradiction arising in set theory? Answer using complete English sentences.

(8 pts) Let .  is a plane in . Is in that plane? Explain/justify your response.

(8 pts) Solve the augmented matrix and express your solution in vector form.



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| Assessment 1Dusty Wilson Math 220  **No Calculator** | **Name**: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |

(8 pts) Solve the linear system

