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| Assessment 2Dusty Wilson Math 220 No work = no credit | **Name**: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  *He is like the fox, who effaces his tracks*  *in the sand with his tail.* Niels Henrik Abel 1802 - 1829 (Norwegian mathematician) |

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

(1 pt) In the quote above, Abel talks about Gauss’ writing style.

According to Abel, how easy was it to understand Gauss’ work? Answer using complete English sentences.

(5 pts) Describe all solutions of in parametric vector form, where *A* is row equivalent to the matrix:



(6 pts) True or False. Please provide a short justification for your answer.

1. (T/F) If a set contains fewer vectors than there are entries in the vectors, then the set is linearly independent.

1. (T/F) The columns of a matrix *A* are linearly independent if the equation  has the trivial solution.
2. (T/F) If  and  are linearly independent, and if  is linearly dependent, then  is in .

(5 pts) Find the standard matrix *A* of the linear transformation *T* where  first rotates points clockwise  and then reflects points through the horizontal .

Hint: 