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| Quiz 2 – Spring 2010Dusty Wilson Math 220No work = no credit**Calculators Allowed** | **Name**: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_*As for everything else, so for a mathematical theory:* *beauty can be perceived but not explained.* Arthur Cayley (1821 - 1895) English mathematician |

 (0 pts) Why linear algebra? See the quote above by Cayley.

(1 pt) What math classes have you taken at Highline? Please circle courses that you have repeated.

(3 pts) Carefully give the conditions that must be satisfied for a subset *W* of to be a subspace.

(4 pts) Give an algebraic representation for the null space of .

(4 pts) Show that the vector  is in the range of .

(5 pts) *W* is a subset of . Determine if is a subspace of .