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| Quiz 1Dusty Wilson Math 220– Spring 2010 No work = no credit **No Calculators** | **Name**: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  *Every good mathematician is at least half a philosopher, and every good philosopher is at least half a mathematician.*  Gottlob Frege  (1848 - 1925)  German mathematician |

(0 pts) The quote (see above) by Frege encourages you to branch out of pure mathematics and science

(1 pt) Explain what it means for a system of linear equations to be inconsistent?

(4 pts) Solve the system of linear equations and express the solution in vector form. Use Gauss-Jordan Elimination.



(4 pts) Solve the equation  if  and  using Gauss-Jordan Elimination.

(1 pt) Can a homogeneous system of linear equations be inconsistent? Explain your answer.

(3 pts) If  and , find  and .

1. 
2. 