

Math Sheet

Name _____ Score _____ Teacher _____ Date _____

Gaussian Elimination and RREF

Row-reduce each augmented matrix to RREF, classify the system, and give its exact solution or parametric form.

1. Row-reduce the augmented matrix $[[1,1,0|-1],[2,3,2|5],[1,-1,1|5]]$. Classify and solve the system.

2. Row-reduce the augmented matrix $[[1,2,2|8],[0,1,-1|4],[1,0,4|0]]$. Classify and solve the system.

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3. Row-reduce the augmented matrix $[[1, -1, 1|4], [0, 1, 1|4], [-2, 1, -3|10]]$. Classify and solve the system.

4. Row-reduce the augmented matrix $[[1, -1, 0|-1], [2, -1, 1|3], [1, 1, 1|7]]$. Classify and solve the system.

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5. Row-reduce the augmented matrix $[[1, -2, 1|6], [0, 1, -2|-3], [2, -2, -2|6]]$. Classify and solve the system.

6. Row-reduce the augmented matrix $[[1, 2, -1|9], [0, 1, -2|10], [-1, 0, -3|13]]$. Classify and solve the system.
