## MATH 260, Homework 3, Fall '14 Due: September 12, 2014 at 2:20 PM

Honor Code:

## Name: Section:

1) Consider the following linear system.

- a) (3 pts) Write the system in  $\mathbf{A}\vec{\mathbf{x}} = \vec{\mathbf{b}}$  form.
- b) (3 pts) Write the augmented matrix for the system.
- c) (12 pts) Use elementary row operations to convert the augmented matrix for the system into REF. Specify the operations used at each step.

| d) (3 pts) Write th | ne linear system that co                           | orresponds to the R | EF augmented mat | rix you found in part | (c). |
|---------------------|--|---------------------|------------------|-----------------------|------|
|                     | e linear system from pa<br>e into the previous equ |                     |                  |                       |      |
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