

“An Aggie does not lie, cheat, or steal or tolerate those who do”

On my honor as an Aggie, I have neither given nor received unauthorized aid on this take home assignment.

Signature:_____

Row:_____ Seat number:_____

In order to receive credit, you must show all your work.

You may use your book and your notes to complete this assignment.

This assignment is due on Wednesday, October 29, 2008.

1) At an arcade tokens are sold for playing various games. For \$20 you can buy 5 gold tokens, 5 silver tokens and 10 bronze tokens, or your \$20 will buy 4 gold tokens, 8 silver tokens and 8 bronze tokens. 5 gold tokens is the same dollar cost as 20 bronze tokens.

a. (3 points) Write a system of equations to represent this problem

b. (1 point) Write this system of equations as an augmented matrix.

c. (4 points) Solve this system using Gauss elimination to get this matrix into echelon form. Indicate your row operations! You may do more than one row operation at a time.

d. (2 points) How much does each type of token cost?