Chapter 8 Take Home: Due Friday, April 17, 2014 NO LATER THAN 7:30 AM	Name:	_ hour:
Show ALL work for credit!		

Use Row Operations to Solve: (15 points)

$$6x - y - 6z = -43$$
  
 $-6x - 4z = -38$   
 $9y + z = 17$ 

Use Row Operations to Solve: (15 points)

$$x + 8y + 8z = 8$$
  
 $7x + 7y + z = 1$   
 $8x + 15y + 9z = -9$ 

Find the inverse matrix (20 points)  $\begin{bmatrix} 1 & 2 & 3 \\ 1 & 1 & 1 \\ 2 & 2 & 1 \end{bmatrix}$ 

Use Cramer's Rule to Solve each system (50 points)

$$2x + 4y - z = 32$$
  
 $x - 2y + 2z = -5$   
 $5x + y + z = 20$ 

D=

 $D_x =$ 

 $D_{\gamma} =$ 

 $D_z$ =