Two angles are complemetary. Their difference is 44. Write and solve a system of equations to find the measure of each angle.

X + Y = 90 $\pm X - \mathcal{F} = 44$ ZX = 134 $X = 67 \cdot \xi \cdot y = 23^{\circ}$

Solve. $\binom{2}{3}x - \frac{5}{6}y = (31)6 - \frac{4}{5}(4x - 5y) = (86)$ $3\left(\left(\frac{7}{4}x + \frac{1}{9}y\right) = (40)^{3}\right) \longrightarrow 5\left((5^{3}x + 4^{3}y) = 144^{3}y\right)$ 16v - 20y = 744 + 315x +20y = 7200 331x - 7944 (24, X=24 Y=-18

Together you and I have \$252.84. You have 10% more than I do.

Write and solve a system of equations to find out how much money each of us has.



You can now finish Hwk #10	
Sec 3-2	Due tomorrow
Problems 14, 17, 35, 54-58	
	Sec 3-2

Solving a system of Linear Equations using matrices.

Matrix: Rows and Columns of data

 $A \left[\begin{array}{rrr} 5 & 6 & -1 \\ 0 & -4 & 8 \end{array} \right]$

Dimensions of a Matrix: the matrix at the left has the following dimensions: 2×3 "two by three"

Each number in a matrix is called an element Matrices are named using a capital letter

Entering matrices on a Ti-84 graphing calculator

1. press 2ND then X^{-1}

- 2. Arrow key to EDIT and press ENTER
- 3. Enter the dimensions you want (Rows x Columns)
- 4. Enter the data one row at a time.