The cost of apples is \$1.99 per pound and the cost of pears is \$2.48 per pound. When I bought some apples and pears I spent \$22.61. It turns out that I bought twice as many pounds of apples as pears. Write and solve a system of equations to find out how many pounds of each I bought.

A=# of lbs of apples

P= "1" "1" "1" "1" Pears

A=ZP=0

Wasing matrices

X= $A^{-1}B = \begin{bmatrix} 7 \\ 3.5 \end{bmatrix} \leftarrow \begin{bmatrix} 1.99 & 2.48 \\ 1 & -2 \end{bmatrix} \times \begin{bmatrix} 22.61 \\ 0 \end{bmatrix}$

Solve.

$$\frac{2m}{3} - \frac{7m}{6} + \frac{m}{12} = 4 | 12$$

$$8m - 14m + m = -48$$

$$-5m = 48$$

$$m = 48$$

Solve.

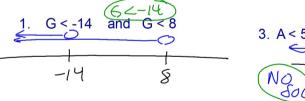
$$24 \left(\frac{w}{8} - \frac{w}{12} + \frac{w}{3}\right) = (5) 24$$

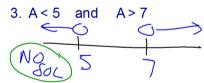
$$3w - 2w + 8w = 120$$

$$9w = 120$$

$$w = 120$$

State the solution to each compound inequality. Give answers as a single statement if possible.







Solve for
$$E$$
.

$$X(NV + \underline{\underline{E}}) - Y = Z + \gamma$$

$$\frac{X(NV+E)}{X} = \frac{2+Y}{2}$$

Restrictions:

$$E = \frac{Z+Y}{X} - NV$$