## Problem 5:

## Problem 6

a) 
$$x=2$$
,  $y=1$ ,  $z=5$ 

$$\frac{\text{Problem 7}}{\text{Problem 7}} : \quad a\left(\frac{4}{-1}\right) + b\left(\frac{2}{1}\right) = \begin{pmatrix} -12\\ 15 \end{pmatrix}$$

$$(a+30=-12 \Rightarrow (a=-42)$$
  
 $b=15+a \Rightarrow (b=8)$ 

$$(b) \ \ z\left(\frac{5}{7}\right) - 3\vec{\nabla} = \begin{pmatrix} 31\\ 26 \end{pmatrix} \implies \begin{pmatrix} 10\\ 14 \end{pmatrix} - 3\vec{\nabla} = \begin{pmatrix} 31\\ 26 \end{pmatrix}$$

$$3\vec{v} = \begin{pmatrix} -21 \\ -12 \end{pmatrix} \quad \vec{v} = \begin{pmatrix} -7 \\ -4 \end{pmatrix}$$

$$\begin{array}{c}
(C) \\
-Y + \begin{bmatrix} 4 & -1 \\ 3 & 2 \\ 0 & 1 \end{bmatrix} = \begin{bmatrix} 2 & -1 \\ 4 & 4 \\ -1 & 6 \end{bmatrix} \\
-Y = \begin{bmatrix} -2 & 0 \\ 1 & 2 \\ -( & -1 \end{bmatrix} \Rightarrow \begin{bmatrix} Y = \begin{bmatrix} 2 & 6 \\ -( & -2 \\ 1 & 1 \end{bmatrix} \\
1 & 1 & 1 \end{bmatrix}$$

## Problem 8:

	•		
 loop#	error	×	
*	1.0	1.0	
1	0.25	1.5	X = 1.4(66/66
2	0.00694	1.416	error = 0.006941
STOPPED			

## Problem 9:

end

function result = factorial (n)

70USEAGE: result = factorial (n)

%INPUTS: n -- mteger %output: result -- n!

%DETAILED DESCRIPTION:

% Takes in an integer and calculates n!

