Assignment

$$\frac{1}{3} \cdot \frac{1}{3} \cdot \frac$$

21) 
$$\frac{3}{3}$$
  $\frac{7}{2}$  =  $\frac{7}{4}$  -  $\frac{7}{5}$  -  $\frac{12}{10}$  -  $\frac{2}{5}$  ( $\frac{12}{5}$  +  $\frac{12}{5}$  +  $\frac{12}{5}$  -  $\frac{12}{5}$  -  $\frac{12}{5}$  +  $\frac{12}{5}$  +  $\frac{12}{5}$  -  $\frac{12}{$ 

adding a multiple of another row did nothing to the

(remer's: 
$$A = \overline{A}$$
:
$$X_{i} = \overline{A}_{i}(b)$$

$$A^{-1} = \overline{A}_{i}(A)$$

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$$S) A = \begin{bmatrix} 1 & 1 & 0 \\ -3 & 0 & 2 \\ 0 & 1 & -2 \end{bmatrix} = \begin{bmatrix} 3 & 1 \\ 0 & 1 \\ 2 & 2 \end{bmatrix}$$

$$A = \begin{bmatrix} 1 & 1 & 0 \\ 0 & 1 & -2 \\ 2 & 2 & 2 \end{bmatrix} = -2 - 6 = -9$$

7) 
$$|6s| 4 - 12s^2 - 4.9 + 0.1.12s^2 + 36.1.s^2 + 3$$

$$a = \frac{1}{3} (A) = C(A)^{\frac{1}{2}} = \frac{1}{3} (A) = \frac{1}{3}$$

$$A^{-1} = \underbrace{C(A)^{T}}_{-S} = \underbrace{\begin{bmatrix} 1/s & 0 & 0 \\ 1/s & 1 & 0 \\ 1/s & 3 & -1 \end{bmatrix}}_{-S}$$

$$V_{z}=(5,2)$$

$$77)$$
  $S = \begin{bmatrix} -2 & -2 \\ 3 & S \end{bmatrix}$   $\begin{bmatrix} -3 & 2 \\ -2 & S \end{bmatrix}$   $\begin{bmatrix} -3 & 2 \\ -2 & S & -2 & 3 \end{bmatrix}$   $\begin{bmatrix} -3 & 2 \\ -10 + 6 \end{pmatrix} (12 - 9) = \begin{bmatrix} -4 \\ -4 \end{pmatrix} (3) = \begin{bmatrix} -12 \\ -12 \end{bmatrix}$ 

1) a) yer, any positive or 0 numbers added will always be
positive or 0.
b) 
$$\vec{u} = [1] c = -1 c \vec{u} = [-1]$$

S) 
$$P_2$$
  $p(t) = at is a substitute of  $\mathbb{R}$   $p(t) = at is a substitute of p(t) = at is a subs$$ 

7) c) 
$$p(t)=z$$
,  $+z_2t+z_3t^2+z_4t^3$ ,  $z_x \in \mathbb{Z}$ 

$$p(0)=z$$
,  $nst$  cludys  $0$   $\times$ 

$$not = subspace of \mathbb{P}_3$$

II) 
$$W = \sum \begin{bmatrix} sb+2c \\ b \end{bmatrix}$$
, b,  $c \in \mathbb{R}^3$   $M = \begin{bmatrix} -1 \\ v = 9 \end{bmatrix}$ 

Uh vare linearly independent,  $\begin{bmatrix} 1 \\ 2 \end{bmatrix}$ 

Span  $\sum \begin{bmatrix} sb+2c \\ s \end{bmatrix}$ ,  $\begin{bmatrix} span \\ span \end{bmatrix}$  Spans  $\begin{bmatrix} span \\ span \end{bmatrix}$ ,  $\begin{bmatrix} span \\ span \end{bmatrix}$  Span  $\begin{bmatrix} span$