$$\begin{array}{c}
O = \int_{a}^{b} \int_{b}^{a} \int_{b$$

then
$$\hat{u}+\hat{v}=\begin{bmatrix}a+c\\b+d\end{bmatrix}$$
 and let $c=-1$, then $c\hat{u}=-1\begin{bmatrix}1\\2\end{bmatrix}=\begin{bmatrix}-1\\-2\end{bmatrix}$ and $\begin{bmatrix}-120\\220\end{bmatrix}$ b) Let $\hat{u}=\begin{bmatrix}1\\2\end{bmatrix}$ and let $c=-1$, then $c\hat{u}=-1\begin{bmatrix}1\\2\end{bmatrix}=\begin{bmatrix}-1\\-2\end{bmatrix}$ and $\begin{bmatrix}-120\\220\end{bmatrix}$ be thus $c\hat{u}$ is in $\begin{bmatrix}120\\200\end{bmatrix}$ (the zero vector in $\begin{bmatrix}12\\2\end{bmatrix}$)

(a) let $a=0$ then $b=0$ then $b=0$ is in $b=0$ then $b=0$ then $b=0$ is in $b=0$ then $b=0$

(i) Consider
$$\vec{p}(\theta) = a \epsilon^2$$
 where a, b is in \mathbb{R} .

and $\vec{q}(t) = b \epsilon^2$

Then $\vec{p}(t) + \vec{q}(t) = a \epsilon^2 + b \epsilon^2 = (a+b) t^2$ where $a t b$ is in \mathbb{R} , and $a t b = \epsilon^2$

Thus, $\vec{p}(t) + \vec{q}(t)$ is in t .

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Then $\vec{p}(t) + \vec{q}(t)$ is in t .

Thus, purfact) is in H.

Let c be a scalar (in IR) then
$$C.\overline{p}(E) = C.aE^2 = CC.a)E^2$$

iii) Let c be a scalar (in IR) then $C.\overline{p}(E) = c.aE^2 = CC.a)E^2$

and a.c is in IR, thus for any scalar, c c. \(\bar{p}(E)\) is in It.

3) i) non-zero vector in Col A =
$$\begin{bmatrix} -3 \\ -3 \\ -9 \\ 9 \end{bmatrix}$$

ii) $\begin{array}{c} 1 + R_2 + R_1 \\ -3 R_1 + R_2 + R_3 + R_3 \\ -3 R_1 + R_4 + R_4 \\ -3 R_1 + R_4 + R_4 \end{array}$

$$\begin{array}{c} -3 & 2 \\ 6 & -9 \\ -4 & 6 \\ 0 & 0 \end{array}$$

$$\begin{array}{c} -3 & 2 \\ 0 & 0 \\ 0 & 0 \end{array}$$

$$\begin{array}{c} -3 & 2 \\ 0 & 0 \\ 0 & 0 \end{array}$$

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