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So 
$$(\frac{1}{2}), (\frac{1}{2}), (\frac{1}{5}) > (\frac{1}{2}, \frac{1}{2}) \approx (\frac{1}{2}, \frac{1}{$$

$$(1) \{ \{ \frac{3}{4} \}, \{ \frac{7}{6} \}, \{ \frac{3}{7} \} \} \Rightarrow ( \frac{3}{4}, \frac{3}{6}, \frac{3}{6} ) \xrightarrow{\text{REF}} ( \frac{1}{6}, \frac{0}{6}, \frac{0}{6} ) \\ ( \frac{3}{6}, \frac{1}{6}, \frac{1}{$$

PREF

4.32 a) 
$$A = \begin{pmatrix} 2 & 1 & 1 & 0 \\ 4 & 2 & 1 & 2 \\ 6 & 3 & 2 & 2 \end{pmatrix} \xrightarrow{RREF} \begin{pmatrix} 1 & \frac{1}{3} & 0 & 1 \\ 0 & 0 & 0 & -2 \\ 0 & 0 & 0 & 0 \end{pmatrix}$$

$$R(A) = \{ \begin{pmatrix} 2 \\ 4 \\ 6 \end{pmatrix}, \begin{pmatrix} \frac{1}{3} \\ 2 \end{pmatrix} \}$$

- b) { [A\*1, A\*3], {A\*1, A\*4], {A\*4], {A\*3], {A\*3], {A\*3], {A\*4], A\*4], {A\*3], {A\*3], {A\*4], {A\*4}, {A\*4], {A\*4], {A\*4], {A\*4], {A\*4], {A\*4], {A\*4], {A\*4}, {A\*4], {A\*4], {A\*4], {A\*4], {A\*4}, {A\*4], {A\*4], {A\*4}, {A\*4], {A\*4], {A\*4}, {A\*4], {A\*4}, {A\*4}, {A\*4], {A\*4}, {A\*4}, {A\*4}, {A\*4], {A\*4}, {A
- 4.3.5 a) because S+1 can be written as a S+1 where
  - b) because any member of the set times the zero vector = zero vector, which means the zero vector is always a combination of itself and authoria.

$$\begin{vmatrix}
1 & 1 & 1 & 1 & 0 \\
0 & 1 & 1 & 1 & 0
\end{vmatrix}
\xrightarrow{\text{REF}}
\begin{vmatrix}
1 & 0 & 0 & 0 & 0 & 0 \\
0 & 1 & 1 & 1 & 0
\end{vmatrix}
\xrightarrow{\text{OOOD}}
\xrightarrow{\text{OOOD}}
\begin{vmatrix}
1 & 1 & 1 & 1 & 1 & 1 \\
0 & 1 & 0 & 0 & 0
\end{vmatrix}
\xrightarrow{\text{OOOD}}$$
1. i.

4.4.3

Winimum spanning set: 
$$\left\{ \begin{pmatrix} 1\\2\\-1 \end{pmatrix}, \begin{pmatrix} 0\\0\\2 \end{pmatrix}, \begin{pmatrix} 1\\2\\2 \end{pmatrix} \right\}$$