Name: ______ ID #:_____

Fill in all the gaps

0 0 0 1 1 2 row₄

Q2) Is $\{1, 2, 3\}$ in the span of $\{3, 1, 2\}$ and $\{1, -4, 2\}$. You do not need to show arithmetic. You do need to show your set up and explain what you are doing using standard terminology.

```
In[\bullet]:= Aug = REF = \begin{pmatrix} 1 & 0 & 0 & 3 & 4 & 5 \\ 1 & 1 & 3 & 4 & 6 & 5 \\ 3 & 0 & 2 & 1 & 4 & 1 \\ 0 & 0 & 2 & 1 & 1 & 4 \end{pmatrix};
REF = RowAdd [REF, \{\{\{2, -1\}, \{3, -3\}\}, 1\}\}];
REF = RowAdd [REF, \{\{\{4, -1\}\}, 3\}\};
REF = RowScale [REF, {4, 1/9}];
REF = RowAdd [REF, \{\{3,8\},\{2,-1\},\{1,-3\}\},4\}];
REF = RowScale [REF, {3, 1/2}];
REF = RowAdd [REF, \{\{\{2, -3\}\}, 3\}\};
```

Row Op Code