NAME: Zayd Hommoudeh

2 pts. The augmented matrix of a linear system has been reduced by row operations to the form shown. Continue the appropriate row operations and describe the solution set of the original system.

$$\begin{bmatrix} 1 & 7 & 3 & -4 \\ 0 & 1 & -1 & 3 \\ 0 & 0 & 0 & 1 \\ 0 & 0 & 1 & -2 \end{bmatrix}$$

The solution set is empty (i.e. there is no solution) Since there is a contradiction in now 3 as there is a now in the form [0.00 b] (where b = 0) which implies 0=b which is clearly false, This system is inconsisted.

3 pts. Determine the value(s) of h such that the matrix is the augmented matrix of a consistent linear system.

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1 & h & 4 \\
3 & 6 & 8
\end{bmatrix}$$

$$Ra = Ra - 3R.$$

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1 & h & 4 \\
3 & 6 & 8
\end{bmatrix}$$

$$\begin{bmatrix}
1 & h & 4 \\
0 & 6 - 3R - 4
\end{bmatrix}$$

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