9/6/19

Name: Solution

1. Solve the following linear system by transforming its augmented matrix into reduced echelon form.

$$\begin{bmatrix} 2 & 4 & 1 & -3 & -2 \\ 1 & 2 & -1 & 6 & 2 \\ 2 & 1 & 1 & -2 & -3 \\ 1 & -4 & -7 & -1 & -19 \end{bmatrix}$$

$$-2p_{1}+p_{2}-p_{2}$$

$$-p_{1}+p_{2}-p_{3}$$

$$-p_{1}+p_{3}-p_{3}$$

$$-p_{1}+p_{3}-p_{3}$$

$$-p_{2}+p_{3}-p_{3}$$

$$-p_{3}+p_{4}-p_{5}$$

$$-p_{4}-p_{5}-p_{5}$$

$$-p_{5}-p_{5}-p_{5}$$

$$-p_{5}-p_{5}-p_{5}-p_{5}$$

$$-p_{5}-p_{5}-p_{5}-p_{5}$$

$$-p_{5}-p_{5}-p_{5}-p_{5}$$

$$-p_{5}-p_{5}-p_{5}-p_{5}$$

$$-p_{5}-p_{5}-p_{5}-p_{5}-p_{5}$$

$$-p_{5}-p_{5}-p_{5}-p_{5}-p_{5}$$

$$-p_{5}-p_{5}-p_{5}-p_{5}-p_{5}-p_{5}$$

$$-p_{5}$$