+340 pts /1000 | Resources | Solution *Penalized* | Submit Answer

Question 4 of 10 | Attempt 3

Convert the given system to an augmented matrix.

$$\begin{aligned} 2x_1 + x_2 &= 7 \\ -x_1 - x_2 - x_3 &= 4 \end{aligned}$$

- (selected) $\left[\begin{array}{ccc|c} 2 & 1 & 7 & 0 \\ -1 & -1 & -1 & 4 \end{array}\right]$
- $\left[\begin{array}{ccc|c} 2 & 1 & 0 & 7 \\ -1 & -1 & -1 & 4 \end{array}\right]$
- $\left[\begin{array}{ccc|c} 2 & 2 & 0 & 4 \\ -1 & -1 & -1 & 7 \end{array}\right]$
- $\left[\begin{array}{ccc|c} 2 & 2 & 4 & 0 \\ -1 & -1 & -1 & 7 \end{array}\right]$

Find all solutions by reducing the system to echelon form and back substituting.

(Give your answer in the form (*,*,*). Express numbers in exact form. Use symbolic notation and fractions where needed. Enter NO SOLUTION if the system cannot be solved. Express x_1, x_2, and x_3 in terms of s_1 and s_2 if the system has infinitely many solutions.)

$(x_1, x_2, x_3) =$ $(s_1 + 11, -15 - 2s_1, s_1)$