

LATEX PRACTICE

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Math AoPS
5.39)
 $2a - 3b + 5c + d = -41$
 $7a + 2b - c = -28$
 $-a + 2b - 7c - 2d = 46$
 $3a + 7b - 6c + d = 31$

$$\left[\begin{array}{cccc|c} 2 & -3 & 5 & 1 & -41 \\ 7 & 2 & -1 & 0 & -28 \\ -1 & 2 & -7 & -2 & 46 \\ 3 & 7 & -6 & 1 & 31 \end{array} \right]$$
$$= \left[\begin{array}{cccc|c} 2 & -3 & 5 & 1 & -41 \\ 7 & 2 & -1 & 0 & -28 \\ -2 & 4 & -14 & -4 & 92 \\ 3 & 7 & -6 & 1 & 31 \end{array} \right]$$
$$= \left[\begin{array}{cccc|c} 2 & -3 & 5 & 1 & -41 \\ 7 & 2 & -1 & 0 & -28 \\ 0 & 1 & -9 & -3 & 51 \\ 3 & 7 & -6 & 1 & 31 \end{array} \right]$$
$$= \left[\begin{array}{cccc|c} 2 & -3 & 5 & 1 & -41 \\ 7 & 2 & -1 & 0 & -28 \\ 0 & 1 & -9 & -3 & 51 \\ 3 & 7 & -6 & 1 & 31 \end{array} \right]$$