1.2.9 a)

$$\begin{array}{l} (5)\ (3) \\ \downarrow\ \ (2) \\ \ \ \ (1) \end{array} \begin{cases} -2x+3y+3z=-9 \\ 3x-4y+z=5 \\ -5x+7y+2z=-14 \end{cases} \Leftrightarrow \begin{array}{l} \\ \\ (1) \downarrow \end{array} \begin{cases} -2x+3y+3z=-9 \\ y+11z=-17 \\ -y-11z=17 \end{cases}$$

$$\Leftrightarrow \begin{cases} -2x+3y+3z=-9 \\ y+11z=-17 \end{cases}$$

$$\Leftrightarrow \begin{cases} x=-21-15t \\ y=-17-11t \\ z=t \end{cases} \qquad t\in\mathbb{R}.$$

$$-2x=-9-3y-3z=$$
$$=-9-3(-17-11t)-3t$$