4. $\begin{cases} 2x-y+3z=14 \\ 3x-5y+z=14 \\ 4x-7y+2z=18 \end{cases}$

$$\Delta = \begin{vmatrix} 2 & -1 & 3 \\ 3 & -5 & 1 \\ 4 & -7 & 2 \end{vmatrix} = -20-4-63-(-60-14-6)$$
$$= -87+80 = -7$$

$$\Delta x = \begin{vmatrix} 14 & -1 & 3 \\ 14 & -5 & 1 \\ 18 & -7 & 2 \end{vmatrix} = -140-18-294-(-270-28-98)$$
$$= -452+396 = \cancel{-64=54} -56$$

$$\Delta y = \begin{vmatrix} 2 & 14 & 3 \\ 3 & 14 & 1 \\ 4 & 18 & 2 \end{vmatrix} = 56+56+162-(168+36+84)$$
$$= 274-288 = -14$$

$$\Delta z = \begin{vmatrix} 2 & -1 & 14 \\ 3 & -5 & 14 \\ 4 & -7 & 18 \end{vmatrix} = -180-\overset{56}{\cancel{\square}}-294-(-280-196-54)$$
$$= \cancel{-538} +530 = \cancel{-8} \; 0$$
$$-530$$

$\cancel{\Delta x =}$ $x = \frac{\Delta x}{\Delta} = 8$, $y = \frac{\Delta y}{\Delta} = 2$, $z = \frac{\Delta z}{\Delta} = 0$

$2 \times 8 - 2 = 14$

$3 \times 8 - 10 = 14$

$4 \times 8 - 14 = 18$

результат верен. Ответ в учебнике неправилен.