8(a,b): combine into one system two

$$\begin{matrix}-2\\-1\end{matrix}\left(\begin{array}{ccc|cc} 1 & 2 & 2 & 1 & 9 \\ 2 & 5 & 1 & 9 & 9 \\ 1 & 3 & 4 & 9 & -2 \end{array}\right) \rightarrow \left(\begin{array}{ccc|cc} & & & -2 & \\ 0 & & & 5 & \\ & & & 6 & \end{array}\right.\left|\begin{array}{cc} 1 & 9 \\ 7 & -9 \\ 8 & -11 \end{array}\right)$$

$$\rightarrow \left(\begin{array}{ccc|cc} 1 & 2 & -2 & 1 & 9 \\ 0 & 1 & 5 & 7 & -9 \\ & 0 & 1 & 1 & -2 \end{array}\right)$$ o triang

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(a) $x_1 + 2x_2 - 2x_3 = 1$
$x_2 + 5x_3 = 7$
$x_3 = 1$

$x_1 = 1 - 2\cdot 2 + 2\cdot 1 = -1$
$\Rightarrow x_2 =$ —

(b) $x_1 + 2x_2 - 2x_3 = 9$
$x_2 = -9$
$x_3 = -2$

$x_1 = 9 - 2\cdot(-11) + 2\cdot 2 =$
$= 1$
$\Rightarrow x_2 =$?

(a)

Note: probl (6h) used elementary row
to make sure we were dealing with
kind of trick is important hand arithmetic
but is not is used and the
coefficients are not ~~not~~ simple integer