Written HW 1

Do the following hw using Row reducer at
`http://www.dangries.com/Flash/RowReducer/RowReducer.html`
Note that you can click "show and printable output" to copy and paste
your calculation into a text file.

Email your homework to maopei@gmail.com.

Find the solution of the linear systems (express your solutions in parametric vector form)

(a)

$$
\begin{aligned}
-x_2 - x_3 + x_4 &= 0 \\
x_1 + x_2 + x_3 + x_4 &= 6 \\
2x_1 + 4x_2 + x_3 - 2x_4 &= -1 \\
3x_1 + x_2 - 2x_3 + 2x_4 &= 3
\end{aligned}
$$

(b)

$$
\begin{aligned}
-x_2 - x_3 + x_4 &= 0 \\
x_1 + x_2 + x_3 + x_4 &= 6 \\
2x_1 + 4x_2 + x_3 - 2x_4 &= -1 \\
3x_1 + x_2 - 2x_3 + 3x_4 &= 3
\end{aligned}
$$

(c)

$$
\begin{aligned}
x_1 + 2x_2 + 3x_3 + 4x_4 &= 8 \\
x_1 + 2x_2 + 4x_3 + 7x_4 &= 12 \\
2x_1 + 4x_2 + 6x_3 + 8x_4 &= 16
\end{aligned}
$$