Worksheet 1
Intro to Linear Systems & Matrices   MATH 2250, Fall 2018

1. Solve the system

$$\begin{array}{rcrcrcr} x_1 & & & - & 3x_3 & = & 8 \\ 2x_1 & + & 2x_2 & + & 9x_3 & = & 7 \\ & & x_2 & + & 5x_3 & = & -2 \end{array} \tag{1}$$

2. Is the given system consistent or inconsistent?

$$
\begin{array}{rrrrrrr}
 & & x_2 & - & 4x_3 & = & -5 \\
x_1 & + & 3x_2 & + & 5x_3 & = & -2 \\
3x_1 & + & 7x_2 & + & 7x_3 & = & 6
\end{array}
\tag{2}
$$