List of common mistakes
EE 201 - Fall 2013-14

i. **Never forget to write the units.** (You may lose several points if you do not develop this practice in the forthcoming exams. You are warned! 😊)

\[
\begin{align*}
    i_1 &= -\frac{13}{7} A \\
    i_2 &= \frac{39}{7} - 1 = \frac{32}{7} A \\
    i_4 &= -\frac{39}{7} + \frac{2}{7} A \\
    &= -\frac{29}{7} A
\end{align*}
\]

ii. If you are writing an equation system, make sure that you have the unknowns on the left side and known quantities (such as external input) on the right hand side.

\[
\begin{align*}
    \begin{bmatrix}
        9 & 0 & 3 & 0 \\
        0 & 5 & 0 & 5 \\
        3 & 0 & 3 & 0 \\
        0 & 5 & 0 & 9
    \end{bmatrix}
    \begin{bmatrix}
        i_1 \\
        i_2 \\
        i_3 \\
        i_4
    \end{bmatrix}
    &= \begin{bmatrix}
        -3 \\
        v_{2} - 6 \\
        v_{2} - 4 \\
        v_{2}
    \end{bmatrix}
\end{align*}
\]

- Do not put unknowns on RHS of an equation system!

iii. Do not forget units of axes, arrows indicating the positive axis direction and origin indication in your plots.

\[
\begin{align*}
    & \text{R: in N's} \\
    & \text{R: in kN's}
\end{align*}
\]