Assignment for Section 2.2: The ideal of Elimination

(1) Consider the 2 by 2 system

$$\begin{array}{rcl}
2x & - & 4y & = & 6 \\
-x & + & 5y & = & 0
\end{array}$$

- (a) What multiple of the first equation should be subtracted from the second equation?
- (b) After this elimination step, solve the triangular system.
- (c) If the right side changes to (-6,0), what is the new solution?
- (2) Apply forward elimination and back substitution to solve

(3) Find the pivots and the solutions for the system