

$$\underline{9.1} \quad L y = f$$

$$\begin{bmatrix} 1 & 0 & 0 \\ k_2 & 1 & 0 \\ 0 & k_3 & 1 \end{bmatrix} \begin{bmatrix} y_1 \\ y_2 \\ y_3 \end{bmatrix} = \begin{bmatrix} f_1 \\ f_2 \\ f_3 \end{bmatrix}$$

$$y_1 = f_1$$

$$k_2 y_1 + y_2 = f_2$$

$$k_3 y_2 + y_3 = f_3$$

$$y_2 = f_2 - k_2 y_1$$

$$y_3 = f_3 - k_3 y_2$$

$\left. \begin{array}{l} n = 3, \\ 2 \text{ sub's} \\ 2 \text{ mult's} \end{array} \right\}$