

9.1  $L y = f$

$$\begin{bmatrix} 1 & 0 & 0 \\ l_2 & 1 & 0 \\ 0 & l_3 & 1 \end{bmatrix} \begin{bmatrix} y_1 \\ y_2 \\ y_3 \end{bmatrix} = \begin{bmatrix} f_1 \\ f_2 \\ f_3 \end{bmatrix}$$

$$y_1 = f_1$$

$$l_2 y_1 + y_2 = f_2$$

$$l_3 y_2 + y_3 = f_3$$

$$y_2 = f_2 - l_2 y_1$$

$$y_3 = f_3 - l_3 y_2$$

}  $n = 3$ ,  
2 sub's  
2 mult's