Adrian Camilo Tibaduiza Custello 20192605032 Taren Sistèma de Control por realmentación de Estados. G(5) = 20(5+5) 5(5+1)(5+4) > Y(5) X1(2) 1 53+552+4 Ø527205+100  $\frac{X_1(5)}{R_1(5)} = \frac{1}{5^2 + 55^2 + 45}$ (53+552+95) X1(5) = V(5) X, +5x, +9x,=1 1/ x3 =-Sx3-9-x2+11 y(s) = (b2 52 + 6, 5+60) X, (5) = (052+205+100) X1(5) = (20 s + 100) X1(S) upleando L = 20%, +100%, = 30% = 20%, = 100%,  $\begin{bmatrix} \dot{x}_{1} \\ \dot{x}_{2} \\ \dot{x}_{3} \end{bmatrix} = \begin{bmatrix} 0 & 1 & 0 \\ 0 & 0 & 1 \\ 0 & -4 & -5 \end{bmatrix} \begin{bmatrix} \dot{x}_{1} \\ \dot{x}_{2} \\ \dot{x}_{3} \end{bmatrix} \begin{bmatrix} 0 \\ 0 \\ \dot{x}_{3} \end{bmatrix}$ y = [106 20 0] X2 Norma





