RW 12.23

$$A = \begin{bmatrix} -2 & 1 \\ 2 & -3 \end{bmatrix} \qquad B = \begin{bmatrix} 2 \\ 0 \end{bmatrix} \qquad C = \begin{bmatrix} 0 & 1 \end{bmatrix}$$

$$\dot{x} = Ax + Bu \qquad y = Cx$$

$$H(s) = \frac{y(s)}{u(s)} \qquad H(s) = C(sI - A)^{-1}B + D$$