

$$6.3.1 \quad \dot{x} = x - y \quad \dot{y} = x^2 - 4$$

Let $\dot{x} = 0$ get $y = x = \pm 2$.

$$y=0 \quad A = \begin{pmatrix} 1 & -1 \\ 2x & 0 \end{pmatrix}$$

$$A_1 = \begin{pmatrix} 1 & -1 \\ 4 & 0 \end{pmatrix} \quad \Delta = 4 \quad \zeta = 1$$

$$A_2 = \begin{pmatrix} 1 & -1 \\ -4 & 0 \end{pmatrix} \quad \Delta = -4 \quad \zeta = 1$$

$$\lambda_{1,2} = \frac{1 \pm \sqrt{1+16}}{2}$$

