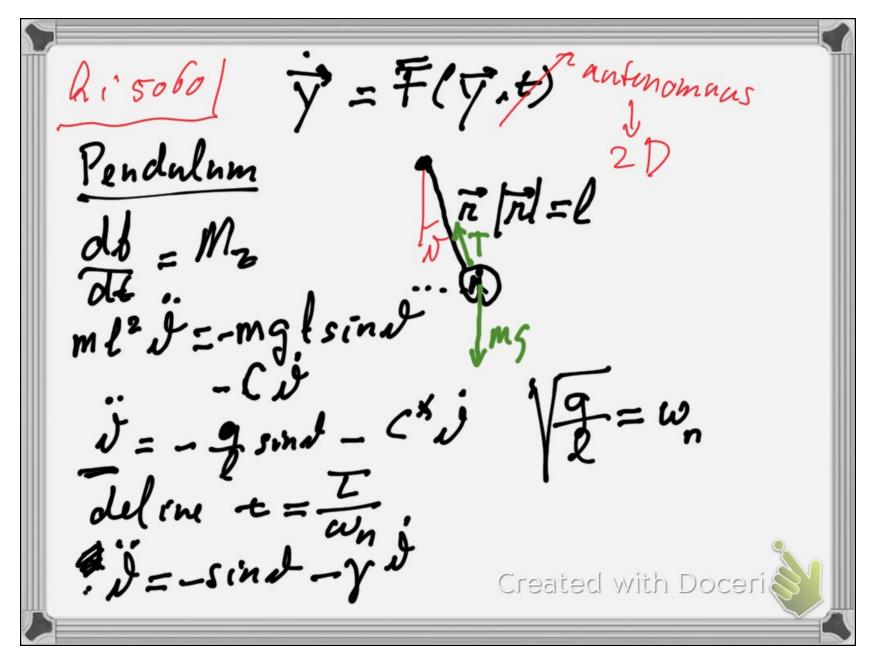
aim112320.pdf Page 1 of 7



$$\dot{y} = -\sin y - \gamma \dot{y} \qquad \dot{y}_1 = \dot{y}_2$$

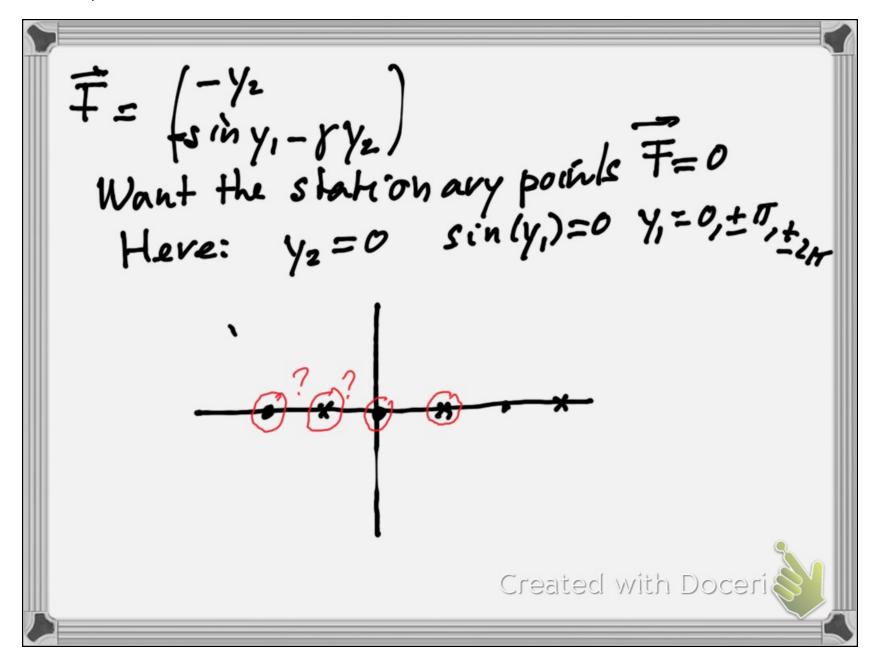
$$\frac{dy}{dt} = \dot{y}_2$$

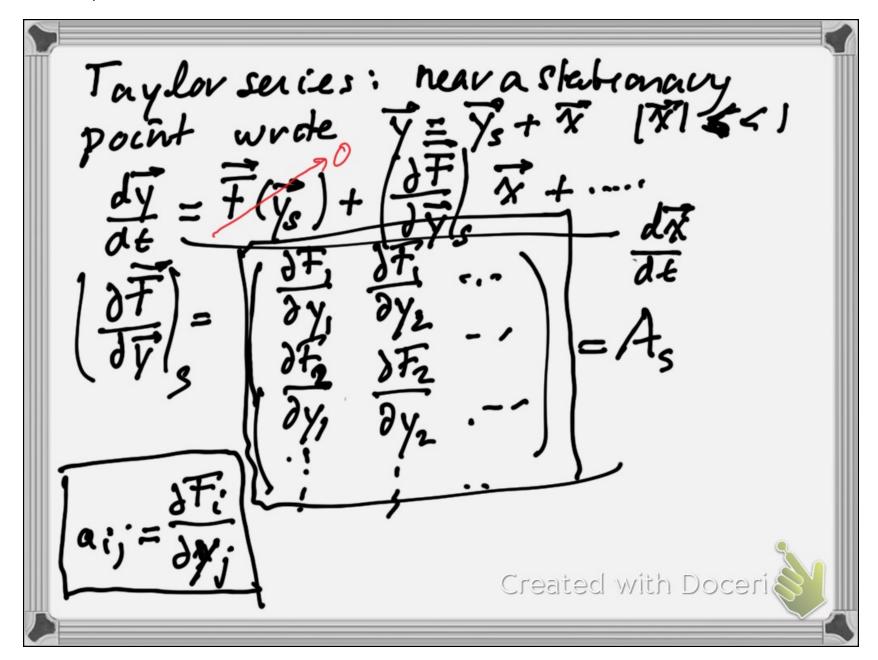
$$\frac{dy}{dt} = -\sin \dot{y}_1 - \gamma \dot{y}_2$$

$$\frac{dy}{dt} = \ddot{x}_1 - \dot{y}_2$$

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aim112320.pdf Page 5 of 7

So Near the statemary point:

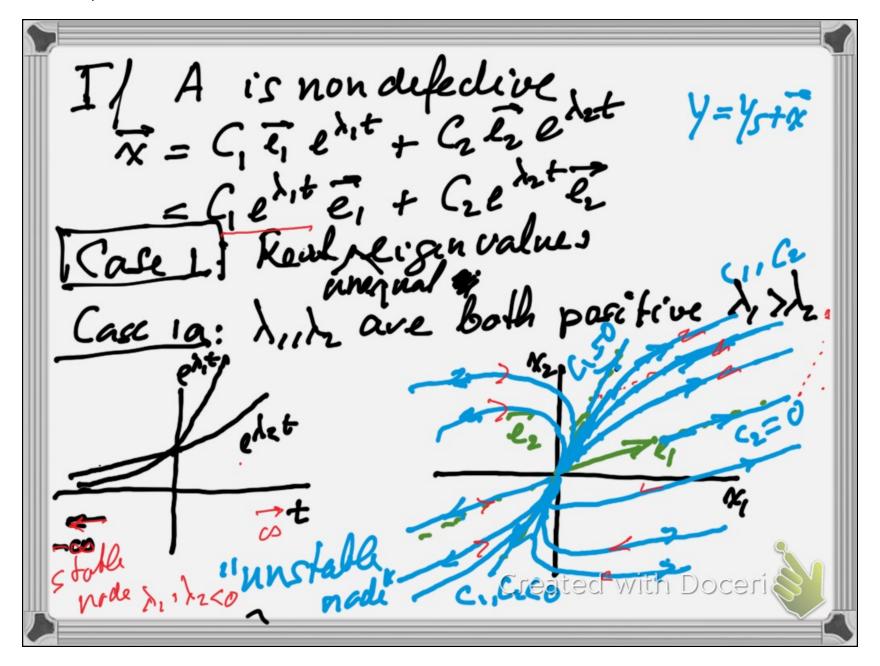
$$\frac{d\vec{x}}{dt} = A_s \vec{x}$$
Pendulum
$$\vec{F} = \begin{pmatrix} + \frac{1}{2} \\ -sin(y_1) - \frac{1}{2} \end{pmatrix}$$

$$\begin{cases} y_1 = y_2 = 0 \\ y_2 = 0 \end{cases}$$

$$A = \begin{pmatrix} 0 \\ -cas(y_1) - \frac{1}{2} \end{pmatrix}$$

$$\begin{cases} y_1 = y_2 = 0 \\ y_2 = 0 \end{cases}$$

$$A = \begin{pmatrix} 0 \\ -cas(y_1) - \frac{1}{2} \end{pmatrix}$$
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aim112320.pdf Page 7 of 7

