

$$\frac{dy = U - Cy}{dt}$$

2
$$u = \alpha (y - y)$$
 Although typically $y - y$

3.
$$\frac{dy}{dt} = \frac{\alpha(\bar{y} - y)}{A} - \frac{cy}{A}$$

$$\zeta(y) = \alpha(\overline{y} - y) - \zeta y$$

$$A$$

$$\begin{cases} \langle |y \rangle = -\alpha - c \\ A \end{cases}$$

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$$\frac{14. \ln(0.01)}{A} = \frac{1}{A} + \frac{1}{A} + \frac{1}{A}$$

$$CA = A \left[(0.01) - C \right]$$

5.