

Since  $\alpha, \beta > 0$ : two cases.

Case 1.  $\alpha \leq \frac{\beta^2}{4} \Rightarrow$  two real negative eigenvalues  
STABLE

Case 2.  $\alpha > \frac{\beta^2}{4} \Rightarrow$  complex eigenvalues, negative  
real part  
STABLE.

[10]. a)  $u \dot{=} h + u - \ln(1 + u).$

