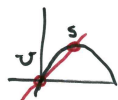




# Local Stability

2.9

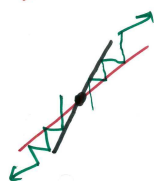
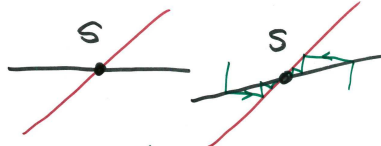


$$p = f(p)$$

zoom:  $\boxed{S}$

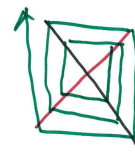


$\boxed{U}$



$$\begin{aligned} \rightarrow f'(x^*) < 1 \\ \Rightarrow S \\ \rightarrow f'(x^*) > 1 \\ \Rightarrow U \end{aligned}$$

$$f'(x^*) < -1$$



2.10

