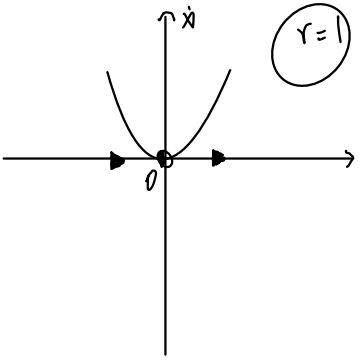
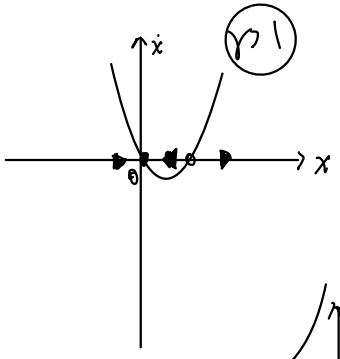
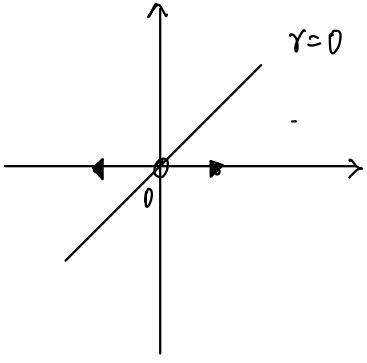
3.2.3 $\dot{x} = x - rx(1-x)$

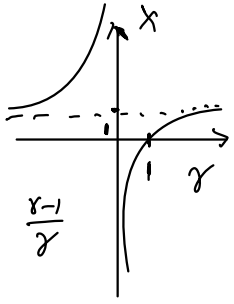






$x - rx - rx^2 = 0.$

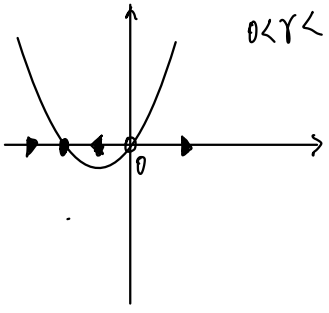
$x = \frac{r-1}{r}$

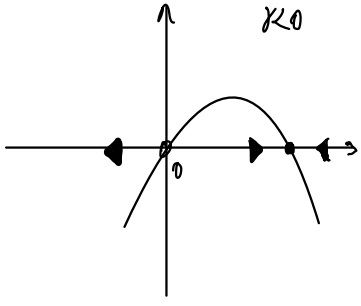


① $r > 1$

② $0 < r < 1$

③ $r < 0$





r Gradual coincidence of stability points. from $-\infty$ to 1 then exchange stability after 1