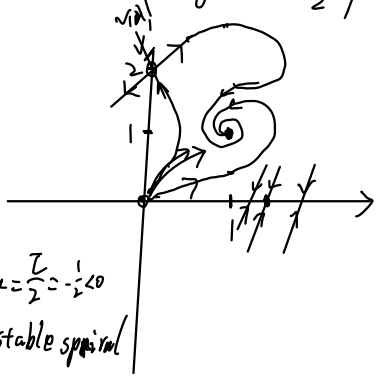
6.4.2. $\dot{x} = x(3-2x-y) = 0$,
$\dot{y} = y(2-x-y) = 0$,
get $(0,2), (1,1), (\frac{3}{2},0), (0,0)$,

$$A = \begin{pmatrix} -2x-y+3 & -x \\ -y & -x-2y+2 \end{pmatrix}$$

$(0,0)$ $A = \begin{pmatrix} 3 & 0 \\ 0 & 2 \end{pmatrix}$ $\lambda = 3, 2$



$(0,2)$ $A = \begin{pmatrix} 1 & 0 \\ -2 & -2 \end{pmatrix}$ $\lambda = 1, -2$

$(1,1)$ $A = \begin{pmatrix} 0 & -1 \\ -1 & -1 \end{pmatrix}$ $\tau = -1$ $\alpha = \frac{\tau}{2} = -\frac{1}{2} < 0$
$\Delta = 1$ $\therefore$ stable spiral

$(\frac{3}{2},0)$ $A = \begin{pmatrix} 0 & -\frac{3}{2} \\ 0 & \frac{1}{2} \end{pmatrix}$ $\tau = -\frac{1}{2}$
$\Delta = 0$

$\lambda = 1, 0$.