b)
$$A = \begin{pmatrix} \sigma_{+3} & 4 \\ -4/4 & \delta_{-3} \end{pmatrix}$$

$$\Delta = (5 \cdot 3)(5 - 3) - (4)(-\frac{2}{3}) = 5^2 - 9 + 9 = 5^2$$

$$\lambda = \begin{bmatrix} \sigma \\ \sigma \end{bmatrix}$$

$$(A - I\lambda) = 0$$

$$\begin{pmatrix} 3 & 4 \\ -\frac{9}{4} & -3 \end{pmatrix} \begin{pmatrix} x \\ y \end{pmatrix} = \begin{pmatrix} 0 \\ 0 \end{pmatrix} \Rightarrow y = -\frac{3}{4}x$$

$$\forall \mathbf{A}_{-1} = \frac{\mathbf{Q}_{-1}}{1} \begin{pmatrix} \mathbf{a}_{-2} & \mathbf{a}_{+2} \\ \mathbf{a}_{-3} & \mathbf{a}_{+2} \end{pmatrix} = \mathbf{a}_{-3}$$

$$\frac{3}{4} \times \begin{cases} 3_{x} + 4_{y} - \frac{x^{3}}{100} \\ -\frac{9}{4}x - 3_{y} \Rightarrow y = -\frac{3}{4}x \end{cases}$$

$$\dot{x} = 3x + 4(-3/4x) - \frac{x^3}{100} = -\frac{x^3}{100}$$
 $\dot{x} = 0 \Rightarrow x \cdot 6$