b)
$$\beta = \begin{bmatrix} 2 & 2 \\ -1 & 2 \end{bmatrix}$$
 $dx + (A - NI) = 0$
 $dx + (A - NI) = 0$

$$\frac{2}{||f(x)||_{L^{2}}} = \frac{a \cdot b}{b \cdot b} \times b$$

$$= \frac{-4}{1} \frac{1}{2} \frac{1}{2} \cdot \frac{1}{2} = \frac{-4 + 2}{1 + 4} \cdot \frac{1}{2}$$

$$= \frac{-2}{5} \frac{1}{2} = \frac{-215}{-415}$$