Physics 220 Homework 7 Problem 1c.

$$M = \begin{pmatrix} 2 \\ 2 \\ \frac{1}{2} \end{pmatrix} \qquad V = \begin{pmatrix} 3 \\ 2 \\ -\frac{1}{2} \end{pmatrix}$$

$$V - \lambda M = \begin{pmatrix} -2x \\ 2 - 2\lambda \\ \frac{L^{2}}{2} (H - \lambda) \end{pmatrix}$$

$$\lambda = -1, 0, +1$$

$$\lambda = -1$$

$$\lambda = -1$$

$$\lambda = -1$$

$$\lambda = 0$$

$$\lambda = 1$$