Math 2080: Differential Equations Worksheet 4.2: Eigenvalues and eigenvectors

NAME:

Let
$$\boldsymbol{A} = \begin{bmatrix} -2 & 1 \\ 4 & 1 \end{bmatrix}$$
 and $\boldsymbol{B} = \begin{bmatrix} 1 & 2 \\ 2 & 4 \end{bmatrix}$.

1. Compute the eigenvalues of A.

2. Compute the eigenvectors of A.

3. Compute the eigenvalues of B.

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4. Compute the eigenvectors of \boldsymbol{B} .