姓名 Name : _____ 學號 Student ID # : _____

Quiz 3 MATH 104 / GEAI 1209: Linear Algebra II

Let

$$A = \begin{bmatrix} -11 & 5 & -16 \\ 0 & -4 & 0 \\ 8 & -7 & 13 \end{bmatrix}.$$

Suppose the eigenvalues of A are $\lambda_1, \ldots, \lambda_3$. Find the value of $S = \sum_{i=1}^{3} |\lambda_i|$, where $|\cdot|$ is the absolute value.

Check code = S mod 10

Solution.

I know the answer ~

AbsSumEigs 1

Indicating your answer by **underlining it** or **circling it.**
Compute the **check code** and fill it into the **box on the right.**

check code

3

姓名 Name : _____ 學號 Student ID # : _____

Quiz 3 MATH 104 / GEAI 1209: Linear Algebra II

Let

$$A = \begin{bmatrix} -3 & -1 & 0 \\ 2 & -6 & 0 \\ -1 & 1 & -4 \end{bmatrix}.$$

Suppose the eigenvalues of A are $\lambda_1, \ldots, \lambda_3$. Find the value of $S = \sum_{i=1}^{3} |\lambda_i|$, where $|\cdot|$ is the absolute value.

Check code = S mod 10

Solution.

My answer is correct

with probability 10 %.

AbsSumEigs 2

Indicating your answer by **underlining it** or **circling it**.
Compute the **check code** and fill it into the **box on the right**.

check code

7

姓名 Name : _____ 學號 Student ID # : _____

Quiz 3 MATH 104 / GEAI 1209: Linear Algebra II

Let

$$A = \begin{bmatrix} 30 & 4 & 56 \\ 30 & 7 & 63 \\ -16 & -2 & -30 \end{bmatrix}.$$

Suppose the eigenvalues of A are $\lambda_1, \ldots, \lambda_3$. Find the value of $S = \sum_{i=1}^{3} |\lambda_i|$, where $|\cdot|$ is the absolute value.

Check code $= S \bmod 10$

Solution.

This question is easy.

AbsSumEigs 3

Indicating your answer by **underlining it** or **circling it**.
Compute the **check code** and fill it into the **box on the right**.

check code

5