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.



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

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.



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

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 =  $S \mod 10$ 

### Solution.



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

Let

$$A = \begin{bmatrix} -10 & -6 & 6\\ 18 & 11 & -12\\ 10 & 7 & -8 \end{bmatrix}.$$

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.



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

Let

$$A = \begin{bmatrix} -9 & -8 & 6\\ 22 & 21 & -18\\ 8 & 8 & -7 \end{bmatrix}.$$

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.



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

Let

$$A = \begin{bmatrix} -39 & 70 & 98\\ -20 & 36 & 47\\ -2 & 4 & 7 \end{bmatrix}.$$

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.

AbsSumEigs 6

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



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Let

$$A = \begin{bmatrix} 5 & -36 & 66 \\ 4 & -31 & 58 \\ 2 & -14 & 26 \end{bmatrix}.$$

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.



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

Let

$$A = \begin{bmatrix} -29 & 38 & 48\\ -15 & 20 & 24\\ -6 & 8 & 10 \end{bmatrix}.$$

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.



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

Let

$$A = \begin{bmatrix} -9 & 2 & 26 \\ -8 & 5 & 16 \\ -4 & 0 & 13 \end{bmatrix}.$$

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.

AbsSumEigs 9

Indicating your answer by **underlining it** or **circling it**. Compute the **check code** and fill it into the **box on the right**.  ${\rm check} \, \, {\rm code}$ 



姓名 Name :	學號 Student ID # :	
Quiz 3	MATH 104: Linear Algebra I	[]

Let

$$A = \begin{bmatrix} 25 & 60 & -60 \\ -13 & -31 & 33 \\ -3 & -6 & 8 \end{bmatrix}.$$

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.



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