NetExam

Sri Lanka Institute of Information Technology

Let, $A = \begin{bmatrix} 1 & -3 \\ 0 & 2 \end{bmatrix}, B = \begin{bmatrix} 2 & 1 \\ -1 & 0 \end{bmatrix}, C = \begin{bmatrix} 3 & 2 \\ 1 & -2 \end{bmatrix}, D = \begin{bmatrix} 5 & 4 \\ 5 & -6 \end{bmatrix}$

Find A+ 2B - 3C + D.

Let,

$Answer = \begin{bmatrix} a & b \\ c & d \end{bmatrix}$
$\begin{matrix} 1 & -3 \\ 0 & 2 \end{matrix}$

a = : [ ]   b = : [ ]

c = : [ ]   d = : [ ]

A = 1   -3
      0   2

2B = 4   2
       -2   0

-3C = -9   -6
        -3   6

D = 5   4
      5   -6

Let $A = \begin{bmatrix} 8 & 3 \\ 4 & -6 \end{bmatrix}$

$A.A = \begin{bmatrix} 76 & 6 \\ 8 & 48 \end{bmatrix}$

Find $A^2 - 3I + 2A$.

Answer =

89	12
16	33

9

answered

out of

question

Let $A = \begin{bmatrix} 3 & 7 \\ -4 & 5 \end{bmatrix}$

Find $A^2 - 3I + 2A$.

A.A = -19   56
      -32   -3

Answer =

-16   70
-40   4

Question 3

Not yet answered

Marked out of 4.00

⚑ Flag question

Find the following product.

$$A = \begin{bmatrix} 21 & 13 & -4 \\ 15 & 14 & 0 \end{bmatrix} \cdot \begin{bmatrix} -7 & 11 \\ 4 & -4 \\ -12 & 8 \end{bmatrix}$$

$$A = \begin{bmatrix} a & b \\ c & d \end{bmatrix}$$

a = :   I   b = :   -47   147

c = :   d = :   -49   109

Find the following product.

$$A = \begin{bmatrix} 21 & 13 & -4 \\ 15 & 14 & 0 \end{bmatrix} \cdot \begin{bmatrix} -7 & 11 \\ 4 & -4 \\ -12 & 8 \end{bmatrix}$$

$$A = \begin{bmatrix} a & b \\ c & d \end{bmatrix}$$

a = : I   b = :

c = :   d = :

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Question 7

Not yet answered

Marked out of
8.00

⚑ Flag question

Let, $A = \begin{bmatrix} 1 & -3 \\ 0 & 2 \end{bmatrix}$, $B = \begin{bmatrix} 2 & 1 \\ -1 & 0 \end{bmatrix}$, $C = \begin{bmatrix} 3 & 2 \\ 1 & -2 \end{bmatrix}$, $D = \begin{bmatrix} 5 & 4 \\ 5 & -6 \end{bmatrix}$

Find A+ 2B - 3C + D.

Let,

$$Answer = \begin{bmatrix} a & b \\ c & d \end{bmatrix}$$

a = : [   ]   b = : [   ]   1 -3

c = : [   ]   d = : [   ]   0   2

                                    1 -3
                                    0   2

                                    4   2
                                   -2   0

                                   -9 -6
                                   -3   6

                                    5   4
                                    5 -6

Consider the following graph.

Determine whether the above graph has the following.

Hamilton Path =

X Yes

◯ No

Hamilton Circuit =

◯ Yes

X No

E, P = no
E, C = yes

Euler Path =

◯ Yes

Let $A = \begin{bmatrix} 3 & 7 \\ -4 & 5 \end{bmatrix}$

Find $A^2 - 3I + 2A$.

A.A = -19 56
        -22   -3

Answer =

-16 70
14   4

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Find the following product.

$$A = \begin{bmatrix} 21 & 13 & -4 \\ 15 & 14 & 0 \end{bmatrix} \cdot \begin{bmatrix} -7 & 11 \\ 4 & -4 \\ -12 & 8 \end{bmatrix}$$

$$A = \begin{bmatrix} a & b \\ c & d \end{bmatrix}$$

a = : ☐   b = : ☐

c = : ☐   d = : ☐

Question 1

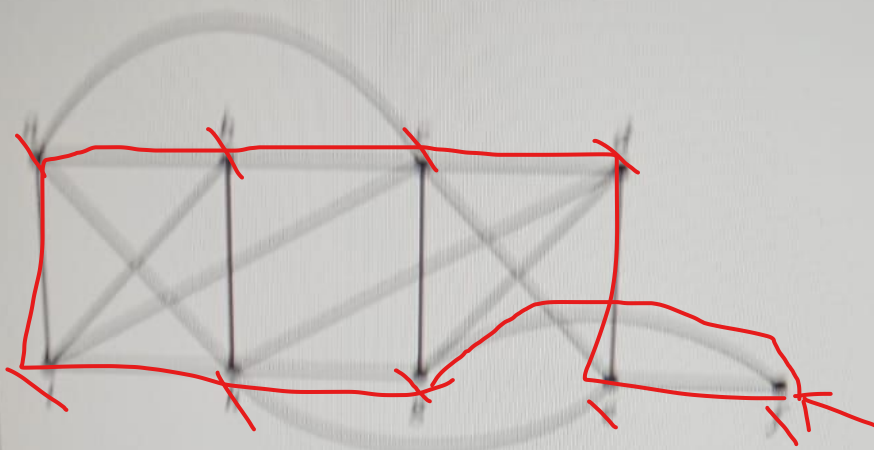Not yet answered

Marked out of 4.00

⚑ Flag question

Find the following product.

$$A = \begin{bmatrix} 12 & 10 & -7 \\ 15 & 11 & 0 \end{bmatrix} \cdot \begin{bmatrix} -3 & 10 \\ 7 & -2 \\ -11 & 8 \end{bmatrix}$$

$$A = \begin{bmatrix} a & b \\ c & d \end{bmatrix}$$

a = : 43   b = : 44

c = : 32   d = : 128

111   44

32   128

Assume the degree sequence of a graph is 5, 4, 3, 2 , 2, 1,1. Determine whether, it is possible to draw the graph with the above degree sequence.

○ Yes

○ No

If this graph exists, does it has an Euler Path?

○ Yes

○ No

If this graph exists, does it has an Euler Circuit?

○ Yes

○ No

Find the following product.

$$A = \begin{bmatrix} 12 & 10 & -7 \\ 15 & 11 & 0 \end{bmatrix} \cdot \begin{bmatrix} -3 & 10 \\ 7 & -2 \\ -11 & 8 \end{bmatrix}$$

$$A = \begin{bmatrix} a & b \\ c & d \end{bmatrix}$$

a = : [   ]   b = : [   ]

c = : [   ]   d = : [   ]

Determine whether the above graph has the follow[ing]

Hamilton Path =
- ● Yes
- ○ No

Hamilton Circuit =
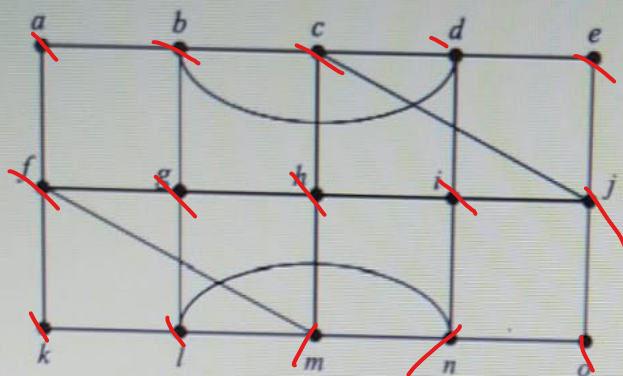- ○ Yes
- ● No

Euler Path =
- ○ Yes
- ○ No

Euler Circuit =
- ○ Yes
- ○ No

Determine whether the above graph has the following.

Hamilton Path =

    ⦿ Yes

    ○ No

Hamilton Circuit =

    ○ Yes

    ○ No

Euler Path =

    ○ Yes

    ○ No

Euler Circuit =

    ○ Yes

    ○ No

Question 1

Not yet answered

Marked out of 4.00

⚑ Flag question

Find the following product.

$$A = \begin{bmatrix} 12 & 10 & -7 \\ 15 & 11 & 0 \end{bmatrix} \cdot \begin{bmatrix} -3 & 10 \\ 7 & -2 \\ -11 & 8 \end{bmatrix}$$

$$A = \begin{bmatrix} a & b \\ c & d \end{bmatrix}$$

a = : 43   b = : 44

c = : 32   d = : 128

tion **5**

et answered

ved out of

ag question

Let $A = \begin{bmatrix} 4 & -3 \\ 6 & 5 \end{bmatrix}$

Find $A^2 - 3I + 2A$.

Answer =

3	-33
66	14
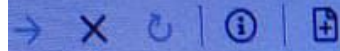
Find the following product.

$$A = \begin{bmatrix} 10 & 12 & -8 \\ 20 & 15 & 0 \end{bmatrix} \cdot \begin{bmatrix} -5 & 11 \\ 4 & -3 \\ -15 & 9 \end{bmatrix}$$

$$A = \begin{bmatrix} a & b \\ c & d \end{bmatrix}$$

a = :

b = :

c = :

d = :

118   2
-40   175

Assume the degree sequence of a graph is 5, 4, 3, 3, 2, 1. Determine whether, it is possible to draw the graph with the above degree sequence.

○ Yes

○ No

If this graph exists, does it has an Euler Path?

○ Yes

✗ No

If this graph exists, does it has an Euler Circuit?

○ Yes

✗ No

Let, $A = \begin{bmatrix} 11 & -13 \\ -12 & 21 \end{bmatrix}$, $B = \begin{bmatrix} 2 & 1 \\ -1 & 0 \end{bmatrix}$, $C = \begin{bmatrix} 3 & 2 \\ 1 & -2 \end{bmatrix}$, $D = \begin{bmatrix} 5 & 4 \\ 5 & -6 \end{bmatrix}$
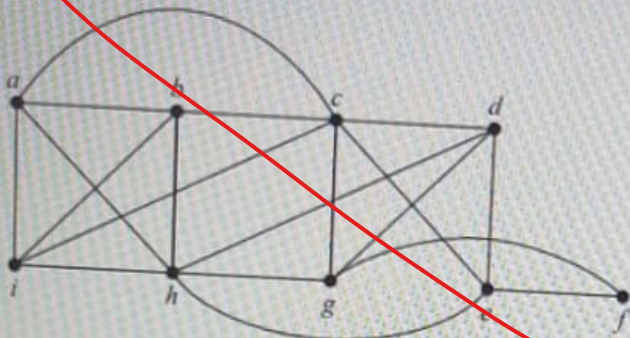
Find A+ 2B - 3C + D.

Let,

$Answer = \begin{bmatrix} a & b \\ c & d \end{bmatrix}$

a = :   b = :

c = :   d = :

```
         11    -13
         -12    21
```

```
11 -13
-12  21

 4   2
-2   0

-9  -6
-3   6

 5   4
 5  -6
```

3

answered

out of

question

Consider the following graph.

Determine whether the above graph has the following.

Hamilton Path =

- ○ Yes
- ○ No

Hamilton Circuit =

- ○ Yes
- ○ No

Euler Path =

- ○ Yes
- ○ No

Euler Circuit =

- ○ Yes

Question 3

Not yet answered

Marked out of 8.00

Flag question

Let, $A = \begin{bmatrix} 11 & -13 \\ -12 & 21 \end{bmatrix}, B = \begin{bmatrix} 2 & 1 \\ -1 & 0 \end{bmatrix}, C = \begin{bmatrix} 3 & 2 \\ 1 & -2 \end{bmatrix}, D = \begin{bmatrix} 5 & 4 \\ 5 & -6 \end{bmatrix}$

Find A+ 2B - 3C + D

Let,

$Answer = \begin{bmatrix} a & b \\ c & d \end{bmatrix}$
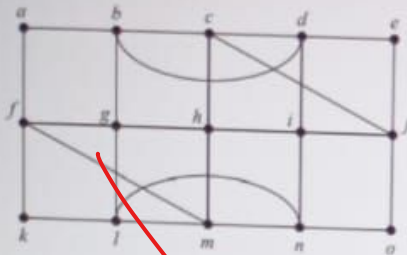
a = : ☐   b = : ☐

c = : ☐   d = : ☐

2

Consider the following graph.

Determine whether the above graph has the following.

Hamilton Path =

○ Yes

○ No

Hamilton Circuit =

○ Yes

○ No

Euler Path =

○ Yes

○ No

Euler Circuit =

○ Yes

○ No

Assume the degree sequence of a graph is 6, 4, 4, 2, 2, 2, 0, 0.
Determine whether, it is possible to draw the graph with the
above degree sequence.

- ✓ Yes

- ○ No

If this graph exists, does it have an Euler Path?

- ○ Yes

- ✗ No

If this graph exists, does it have an Euler Circuit?

- ✓ Yes

- ○ No

Let $A = \begin{bmatrix} 2 & 9 \\ 7 & -6 \end{bmatrix}$

$A.A = \begin{matrix} 67 & -31 \\ 28 & 99 \end{matrix}$

Find $A^2 - 3I + 2A$.

Answer =

$\begin{matrix} 68 & -13 \\ 42 & 84 \end{matrix}$

Let, $A = \begin{bmatrix} 31 & -15 \\ 13 & 20 \end{bmatrix}$, $B = \begin{bmatrix} 2 & 1 \\ -1 & 0 \end{bmatrix}$, $C = \begin{bmatrix} 3 & 2 \\ 1 & -2 \end{bmatrix}$, $D = \begin{bmatrix} 5 & 4 \\ 5 & -6 \end{bmatrix}$

Find A + 2B - 3C + D.

Let,

$Answer = \begin{bmatrix} a & b \\ c & d \end{bmatrix}$

a = :   b = :

c = :   d = :

| 31 | -15 |
| 13 | 20 |

| 31 | -15 |
| 13 | 20 |

| 4 | 2 |
| -2 | 0 |

| -9 | -6 |
| -3 | 6 |

| 5 | 4 |
| 5 | -6 |

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