Resposta da atividade pratica individual

Nome: Antony Nascimento Da Silva Nº 3 Turma CTII317

Tarefa Básica Multiplicação de Matrizes

1. Obtenha os produtos AB e BA, caso existam, dadas as matrizes:

|  |  |
| --- | --- |
| 3 | -1 |
| 0 | 2 |

A =

|  |  |  |
| --- | --- | --- |
| -1 | 2 | 0 |
| 1 | -3 | 4 |

B =

|  |  |  |
| --- | --- | --- |
| -3-1 | 6+3 | 0-4 |
| 0+2 | 0-6 | 0+8 |

A \* B =

|  |  |  |
| --- | --- | --- |
| -4 | 9 | -4 |
| 2 | -6 | 8 |

AB =

BA =

2. Obtenha os produtos AB e BA, caso existam, dadas as matrizes:

|  |  |  |
| --- | --- | --- |
| 5 | 2 | -1 |
| 7 | 4 | 3 |

A =

|  |  |
| --- | --- |
| 3 | -2 |
| 1 | -3 |
| -4 | 0 |

B =

|  |  |
| --- | --- |
| 15+2+4 | -10-16+0 |
| 21+4-12 | -14-12+0 |

A\*B =

|  |  |
| --- | --- |
| 12 | -16 |
| 13 | -26 |

AB =

|  |  |  |
| --- | --- | --- |
| 15-14 | 6-8 | -3-3 |
| 5-21 | 2-12 | -1-9 |
| -20+0 | -8+0 | 4+0 |

B\*A =

|  |  |  |
| --- | --- | --- |
| 1 | -2 | -6 |
| -16 | -10 | -10 |
| -20 | -8 | 4 |

BA =

|  |  |
| --- | --- |
| -1 | 0 |
| 1 | 2 |

3. (UEL) Dada a matriz A= 0 seja At a sua matriz transposta. O produto A.At é a matriz

|  |  |
| --- | --- |
| -1 | 0 |
| 1 | 2 |

A =

|  |  |
| --- | --- |
| 1 | 1 |
| 0 | 2 |

At =

|  |  |
| --- | --- |
| 1+0 | -1+0 |
| -1+0 | 1+4 |

A\*At =

|  |  |
| --- | --- |
| 1 | -1 |
| -1 | 5 |

A\*At =

R = (b)

|  |
| --- |
| 1 |
| 2 |
| 3 |

|  |  |  |
| --- | --- | --- |
| 1 | 2 | 5 |
| 3 | 4 | 6 |

4. Dadas as matrizes A = = B elemento C21 da matriz C = A.B é

|  |  |  |
| --- | --- | --- |
| 1 | 2 | 5 |
| 3 | 4 | 6 |

|  |
| --- |
| 1 |
| 2 |
| 3 |

C21 = 3+8+18 = 29

R: a) 29

|  |  |  |  |
| --- | --- | --- | --- |
| 25 | 50 | 200 | 20 |
| 28 | 60 | 200 | 22 |

5

a) P =

|  |  |
| --- | --- |
| 1,00 | 1,00 |
| 8,00 | 10,00 |
| 0,90 | 0,80 |
| 1,50 | 1,00 |

F =

b) P = produto F= fornecedores f1 = fornecedor1 f2 = fonercedor2 GS = gasto semanal LS = lucro semanal

|  |  |  |  |
| --- | --- | --- | --- |
| 25 | 50 | 200 | 20 |
| 28 | 60 | 200 | 22 |

|  |  |
| --- | --- |
| 1,00 | 1,00 |
| 8,00 | 10,00 |
| 0,90 | 0,80 |
| 1,50 | 1,00 |

\*

|  |  |
| --- | --- |
| 25+400+180+30 | 25+500+160+20 |
| 28+480+135+33 | 28+600+120+22 |

|  |  |
| --- | --- |
| F1 | F2 |
| 635 | 705 |
| 676 | 770 |

GS =

F1 = 635 + 676 = 1.311 F2 = 705 + 770 = 1.475 LS = 1.311 – 1.475 = 169,00

Tarefa Básica PARTICULARIDADES SOBRE PRODUTO MATRICIAL

01.

R:(A)

02.

R: (D)

03.

R: (B)

04.

R:(C)