



MATRICES EXERCISES & SOLUTIONS

QUESTIONS

SOLUTIONS

1

Find the order of the following matrices.

$$A = \begin{bmatrix} 3 & 2 \\ 1 & 4 \end{bmatrix} \quad B = \begin{bmatrix} 1 & 2 & 3 \\ 3 & 2 & 5 \end{bmatrix}$$

$$C = \begin{bmatrix} 3 \\ 2 \\ 1 \end{bmatrix} \quad D = \begin{bmatrix} 2 & 4 & 5 \end{bmatrix}$$

- Order of A is 2 by 2
- Order of B is 2 by 3
- Order of C is 3 by 1
- Order of D is 1 by 3

2

Which of the following matrices are equal?

$$A = \begin{bmatrix} 3 & 2 \\ 1 & 4 \end{bmatrix} \quad B = \begin{bmatrix} 1 & 3 & 4 \\ 2 & 5 & 6 \\ 3 & 2 & 1 \end{bmatrix} \quad C = \begin{bmatrix} 3 & 2 \\ 2 & 1 \\ 3 & 4 \end{bmatrix}$$

$$D = \begin{bmatrix} 4 & 1 \\ 0 & 1 \end{bmatrix} \quad E = \begin{bmatrix} 2 & 0 & 2 \\ 1 & 1 & 1 \\ 3 & 2 & 0 \end{bmatrix} \quad F = \begin{bmatrix} 1 & 2 \\ 2 & 3 \\ 1 & 2 \end{bmatrix}$$

$$A = D, \\ B = E, \\ C = F$$

3

From the following matrices, identify the square, rectangular, row, column, identity, zero matrices.

$$A = \begin{bmatrix} 2 & 3 \\ 4 & 5 \end{bmatrix} \quad B = \begin{bmatrix} 1 & 0 \\ 0 & 1 \end{bmatrix} \quad C = \begin{bmatrix} 3 & 2 & 1 \end{bmatrix}$$

$$D = \begin{bmatrix} 0 & 0 & 0 \\ 0 & 0 & 0 \end{bmatrix} \quad E = \begin{bmatrix} 3 & 2 \\ 1 & 2 \\ 1 & 1 \end{bmatrix} \quad F = \begin{bmatrix} 3 \\ 2 \\ 5 \end{bmatrix}$$

- A = Square Matrix
- B = Identity Matrix
- C = Row Matrix
- D = Zero or Null Matrix
- E = Rectangular Matrix
- F = Column Matrix

4

Find the negative of the following matrices.

$$A = \begin{bmatrix} 2 & 3 \\ 3 & -4 \end{bmatrix} \quad B = \begin{bmatrix} 1 & 3 & -2 \\ 2 & 4 & -1 \end{bmatrix}$$

$$-A = \begin{bmatrix} -2 & -3 \\ -3 & 4 \end{bmatrix}$$

$$-B = \begin{bmatrix} -1 & -3 & 2 \\ -2 & -4 & 1 \end{bmatrix}$$

5

Find the transpose of the following matrices.

$$A = \begin{bmatrix} 3 & 1 \\ 2 & 2 \end{bmatrix} \quad B = \begin{bmatrix} 2 & 2 & 2 \\ 1 & 3 & 1 \end{bmatrix}$$

$$C = \begin{bmatrix} 2 & 3 & 2 \end{bmatrix} \quad D = \begin{bmatrix} 2 & 3 \\ 1 & 2 \\ 3 & 1 \end{bmatrix}$$

$$A^t = \begin{bmatrix} 3 & 2 \\ 1 & 2 \end{bmatrix} \quad B^t = \begin{bmatrix} 2 & 1 \\ 2 & 3 \\ 2 & 1 \end{bmatrix}$$

$$C^t = \begin{bmatrix} 2 \\ 3 \\ 2 \end{bmatrix} \quad D^t = \begin{bmatrix} 2 & 1 & 3 \\ 3 & 2 & 1 \end{bmatrix}$$

6

Find A+B and A-B

$$A = \begin{bmatrix} 2 & 2 \\ 3 & 1 \end{bmatrix} \quad B = \begin{bmatrix} 3 & 2 \\ 2 & 5 \end{bmatrix}$$

$$A+B = \begin{bmatrix} 2 & 2 \\ 3 & 1 \end{bmatrix} + \begin{bmatrix} 3 & 2 \\ 2 & 5 \end{bmatrix}$$

$$A+B = \begin{bmatrix} 2+3 & 2+2 \\ 3+2 & 1+5 \end{bmatrix} = \begin{bmatrix} 5 & 4 \\ 5 & 6 \end{bmatrix}$$

$$A-B = \begin{bmatrix} 2 & 2 \\ 3 & 1 \end{bmatrix} - \begin{bmatrix} 3 & 2 \\ 2 & 5 \end{bmatrix}$$

$$A-B = \begin{bmatrix} 2-3 & 2-2 \\ 3-2 & 1-5 \end{bmatrix} = \begin{bmatrix} -1 & 0 \\ 1 & -4 \end{bmatrix}$$

Matrices Problems And Solutions

DP Hallahan



Matrices Problems And Solutions:

Problems And Solutions In Introductory And Advanced Matrix Calculus (Second Edition) Yorick Hardy, Willi-hans Steeb, 2016-07-14 This book provides an extensive collection of problems with detailed solutions in introductory and advanced matrix calculus Supplementary problems in each chapter will challenge and excite the reader ideal for both graduate and undergraduate mathematics and theoretical physics students The coverage includes systems of linear equations linear differential equations integration and matrices Kronecker product and vec operation as well as functions of matrices Furthermore specialized topics such as spectral theorem nonnormal matrices and mutually unbiased bases are included Many of the problems are related to applications for group theory Lie algebra theory wavelets graph theory and matrix valued differential forms benefitting physics and engineering students and researchers alike It also branches out to problems with tensors and the hyperdeterminant Computer algebra programs in Maxima and SymbolicC have also been provided

3,000 Solved Problems in Linear Algebra Seymour Lipschutz, 1989-01-22 Learn the best strategies for solving tough problems in step by step detail Slash your homework time with these examples Get ready for exams with test type problems Great index helps you quickly locate the type of problem you need to solve

Mathematical Questions and Solutions, 1884

Mathematical Hierarchies and Biology Boris Grigor'evich Mirkin, 1997-01-01 Twenty four articles from the November 1996 workshop investigate the reconstruction of trees or ranking hierarchies from dissimilarity or entity to character data the use of hierarchies for modeling evolution and other processes and the combining of gene trees Included are mathematical treatments of hierarchies in the frameworks of set systems linear subspaces graph objects and tree metrics in their analyses Such current applications as learning robots intron evolution and the development of language are addressed Annotation copyrighted by Book News Inc Portland OR

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General Technical Report RM., 1988

Mathematical Questions and Solutions, from the "Educational Times" W. J. C. Miller, 1884

ECAI 2012 C. Bessiere, 2012-08-15 Artificial intelligence AI plays a vital part in the continued development of computer science and informatics The AI applications employed in fields such as medicine economics linguistics philosophy psychology and logical analysis not forgetting industry are now indispensable for the effective functioning of a multitude of systems This book presents the papers from the 20th biennial European Conference on Artificial Intelligence ECAI 2012 held in Montpellier France in August 2012 The ECAI conference

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Mathematical Questions and Solutions in Continuation of the Mathematical Columns of "the Educational Times", 1884 The William Lowell Putnam Mathematical Competition 2001-2016: Problems, Solutions, and Commentary Kiran S. Kedlaya, Daniel M. Kane, Jonathan M. Kane, Evan M. O'Dorney, 2020-11-05

The William Lowell Putnam Mathematics Competition is the most prestigious undergraduate mathematics problem solving contest in North America with thousands of students taking part every year This volume presents the contest problems for the years 2001-2016 The heart of the book is the solutions these include multiple approaches drawn from many sources plus insights into navigating from the problem statement to a solution There is also a section of hints to encourage readers to engage deeply with the problems before consulting the solutions The authors have a distinguished history of engagement with and preparation of students for the Putnam and other mathematical competitions Collectively they have been named Putnam Fellow top five finisher ten times Kiran Kedlaya also maintains the online Putnam Archive

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