

$$\begin{aligned}
 &= (1 + \omega^n + \omega^{2n})(1 - \omega^n - 1 + \omega^n) \\
 &= (1 + \omega^n + \omega^{2n}) \cdot 0 \\
 &= 0 \\
 &= \text{RHS}
 \end{aligned}$$

$$\because \omega^3 = 1 \Rightarrow \omega^{3n} = 1 \text{ and } \omega^{4n} = \omega^n$$

20. (b) Verify that: $|x + y| \leq |x| + |y|$ with $x = 2$ and $y = -3$ (2)

✍ Here, $x = 2$ and $y = -3$

$$|x + y| = |2 - 3| = |-1| = 1$$

$$|x| + |y| = |2| + |-3| = 2 + 3 = 5$$

$$\therefore |x + y| \leq |x| + |y|$$

21. (a) The single equation of pair of lines is $2x^2 + 3xy + y^2 + 5x + 2y - 3 = 0$

(i) Find the equation of pair of straight lines represented by the single equation. (4)

(ii) Are the pair of lines represented by the given equation passes through origin? Write with reason. (1)

(iii) Find the point of intersection of the pair of lines. (2)

✍ (i) Part:

$$\text{Here, the given equation is } 2x^2 + 3xy + y^2 + 5x + 2y - 3 = 0 \quad \dots(1)$$

The given equation can be written as

$$y^2 + (3x + 2)y + (2x^2 + 5x - 3) = 0$$

This is quadratic in y . Solving for y , we get

$$\begin{aligned}
 y &= \frac{-(3x + 2) \pm \sqrt{(3x + 2)^2 - 4(2x^2 + 5x - 3)}}{2} \\
 &= \frac{-(3x + 2) \pm \sqrt{9x^2 + 12x + 4 - 8x^2 - 20x + 12}}{2} \\
 &= \frac{-(3x + 2) \pm \sqrt{x^2 - 8x + 16}}{2} \\
 &= \frac{-(3x + 2) \pm \sqrt{(x - 4)^2}}{2} \\
 &= \frac{-(3x + 2) \pm (x - 4)}{2}
 \end{aligned}$$

Taking -ve sign,

$$y = \frac{-(3x + 2) - (x - 4)}{2}$$

$$\text{or, } y = \frac{-4x + 2}{2}$$

$$\text{or, } y = -2x + 1$$

$$\therefore 2x + y - 1 = 0$$

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Solutions of Weekly Problem Papers John James Milne, 1885 *Applied Mechanics Reviews* ,1988 Mathematical Questions with Their Solutions ,1896 Mathematical Questions and Solutions in Continuation of the Mathematical Columns of "the Educational Times" ,1903 **Nonnegative Matrices in the Mathematical Sciences** Abraham Berman, Robert J. Plemmons, 1994-01-01 Here is a valuable text and research tool for scientists and engineers who use or work with theory and computation associated with practical problems relating to Markov chains and queuing networks economic analysis or mathematical programming Originally published in 1979 this new edition adds material that updates the subject relative to developments from 1979 to 1993 Theory and applications of nonnegative matrices are blended here and extensive references are included in each area You will be led from the theory of positive operators via the Perron Frobenius theory of nonnegative matrices and the theory of inverse positivity to the widely used topic of M matrices On the way semigroups of nonnegative matrices and symmetric nonnegative matrices are discussed Later applications of nonnegativity and M matrices are given for numerical analysis the example is convergence theory of iterative methods for probability and statistics the examples are finite Markov chains and queuing network models for mathematical economics the example is input output models and for mathematical programming the example is the linear complementarity problem Nonnegativity constraints arise very naturally throughout the physical world Engineers applied mathematicians and scientists who encounter nonnegativity or generalizations of nonnegativity in their work will benefit from topics covered here connecting them to relevant theory Researchers in one area such as queuing theory may find useful the techniques involving nonnegative matrices used by researchers in another area say mathematical programming Exercises and biographical notes are included with each chapter **Finite Elements and Solution Procedures for Structural Analysis: Linear analysis** M. A. Crisfield, 1986 **Compatible Spatial Discretizations** Douglas N. Arnold, Pavel B. Bochev, Richard B. Lehoucq, Roy A. Nicolaides, Mikhail Shashkov, 2007-01-26 The IMA Hot Topics workshop on compatible spatial discretizations was held in 2004 This volume contains original contributions based on the material presented there A unique feature is the inclusion of work that is representative of the recent developments in compatible discretizations across a wide spectrum of disciplines in computational science Abstracts and presentation slides from the workshop can be accessed on the internet Computing Methods in Applied Sciences and Engineering, 1977. Third International Symposium, December 5-9, 1977, IRIA LABORIA, Institut de Recherche d'Informatique et d'Automatique R. Glowinski, J.L. Lions, 2006-11-15 *On a Class of Least-element Complementarity Problems* Stanford University. Department of Operations Research. Systems Optimization Laboratory, 1976 The present paper studies linear complementarity problems which arise from the minimization of certain quadratic functions subject to upper and lower bounds on the variables Two least element characterizations of solutions to the above linear complementarity problem are established first Next a new and direct method to solve this class of problems which depends

on the idea of least element solution is presented Finally applications and computational experience with its implementation are discussed

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