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Good job! you done a great work for the new learners in linear algebra like me. But the answer for 29th question is given as option b. But this is not true for the matrix $\begin{pmatrix} 1 & 0 & 0 & 0 \\ 0 & 1 & 0 & 0 \\ 0 & 0 & 1 & 0 \\ 0 & 0 & 0 & 1 \end{pmatrix}$ whose rank is one. Here the eigenvalues are 1 and 0 so that this matrix is not nilpotent. Now, consider the matrix $\begin{pmatrix} 0 & 1 & 0 & 0 \\ 1 & 0 & 0 & 0 \\ 0 & 0 & 1 & 0 \\ 0 & 0 & 0 & 1 \end{pmatrix}$ having rank one.

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If $x^3 + y^3 = 9$ and $x + y = 3$, then the value of $x^4 + y^4$ is, (A) 21 (B) 0 (C) 17 (D) 25 Answer: (C) Explanation: $x^3 + y^3 = (x + y) \times (x^2 - xy + y^2)$ Putting given values of $x^3 + y^3$ and $(x + y)$ $9 = 3 \times (x^2 - xy + y^2)$ $3 = x^2 - xy + y^2$ $9x^2 - 9xy + 9y^2 = 27$ $9x^2 - 9xy + 9y^2 = 18xy = 2 \times 4 + y^4 = (x^2 + y^2)^2 - 2x^2y^2 = (x^2 + y^2)^2 - 2^2 \times 4$ [Putting value of xy] $= ((x + y)^2 - 2xy)^2 - 2^2 \times 4$ [Putting ...

I. Multiple Choice Questions

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[CHAPTER 8: MATRICES and DETERMINANTS](#)

Objective Type Questions Shyama M.P. Assistant Professor Department of Mathematics Malabar Christian College, Calicut 7/3/2014.

NUMBER THEORY AND LINEAR ALGEBRA MM6B12 University of Calicut Page 2 1. The rank of the identity matrix of order n is: (a) n ? 1 (b) (c) n + 1 2. If A is a non-singular matrix of order n, then the rank of A is:

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This is a numerical answer question of gate paper, in which no options are provided, and the answer is to given by filling a numeral into a text box provided. In the question, matrix A is given as the product of 2 matrices which are of order 3×1 and 1×3 respectively.

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The material in this chapter will be covered in your Linear Algebra class (Math 254 at Mesa). SECTION 8.1: MATRICES and SYSTEMS OF EQUATIONS PART A: MATRICES A matrix is basically an organized box (or "array") of numbers (or other expressions). In this chapter, we will typically assume that our matrices contain only numbers. Example

Linear Algebra Objective Type Questions

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The price increased from \$20 to \$25 (\$5) so the question is 5 is what percent of 20. Or, $\frac{5}{20} = \frac{x}{100}$; $\frac{500}{20} = 25\%$. 6. C. 7. D The first time, Brian answered 150 questions correctly and the second time he answered 30% more correctly, so, $150 + (30/100 \times 150)$; 30% of $150 = 45$, or $(30 \times 150)/100$ so $150 + 45 = 195$. 8. B. Let us call this number ...