SOLVED MTH 501 CURRENT QUISES...DATE 6 JULY 2012... SOLVED BY MASOOM

Question # 1 of 10 (Start time: 08:24:19 PM) Total Marks: 1
Two vectors u and v are orthogonal to each other if _____.
Select correct option:
u . v = 0
u . v = 1
u + v = 0
u - v = 0

Question # 2 of 10 (Start time: 08:25:33 PM) Total Marks: 1
If the columns of a matrix are linearly independent then the matrix is _____.
Select correct option:
invertible (A) is *invertible if* A has linearly independent *columns* in Matrics.
symmetric
antisymmetric
singular

Question # 3 of 10 (Start time: 08:27:06 PM) Total Marks: 1
If the columns of a matrix are _____ then the matrix is invertible.
Select correct option:
linearly independent (A) is *invertible if* A has linearly independent *columns* in Matrics.
linearly dependent

Question # 4 of 10 (Start time: 08:28:38 PM) Total Marks: 1
An n x n matrix A is _____ if and only if A has n linearly independent vectors.
Select correct option:
diagonalizable
singular **not sure**
symmetric
scalar

Question # 7 of 10 (Start time: 08:31:46 PM) Total Marks: 1
Two vectors are _____if at least one of the vector is a multiple of the other
Select correct option:
linearly independent **Page no 89**
linearly dependent

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Question # 8 of 10 (Start time: 08:32:49 PM) Total Marks: 1
An n x n matrix with n distinct eigen values is diagonalizable.
Select correct option:
TRUE **Page no 402**
FALSE

Question # 9 of 10 (Start time: 08:33:50 PM) Total Marks: 1
2x – 3y = –2 4x + y = 24 The above system has a _____ solution.
Select correct option:
inconsistant
many
unique
trivial

Question # 10 of 10 (Start time: 08:35:02 PM) Total Marks: 1
An n x n matrix A is ___ if and only if 0 is not an eigen value of A.
Select correct option:
invertible **In invertible Matrix Theorem.. The n × n matrix A is invertible *if and only if 0 is not* an *eigenvalue of A***
singular
symmetric
scalar