قائمة الاسئلة

bra linear :: امتحان نهاية الفصل الدراسي الثاني - للعام الجامعي 1446 هـ - الموافق -2025/2024مـكلية الحاسوب وتكنولوجيا المعلومات

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1) if all enteries below the main digonal are zeros
   1) + upper tringular
   2) - lower tringular
2) if all enteries above the main digonal are zeros
   1) - upper tringular
   2) + lower tringular
3) let A and B be two matrices if A is invertible and AB=0 then B=0
   1) + TRUE.
   2) - FALSE.
4) the inverse of E is E
   1) + TRUE.
   2) - FALSE.
5) if A and B are two matrices such that AB=0 then A=0 or B=0
   1) - TRUE.
   2) + FALSE.
6) if A≠0 , B and C are matrices that AB=AC , then B=C
   1) - TRUE.
   2) + FALSE.
7) AX=0 has only the trivial solution
   1) + TRUE.
   2) - FALSE.
8) AB≠BA
   1) - TRUE.
   2) + FALSE.
9) let A be a squer matrix, we say A is diagonal matrix if all the entties not on the diagonal are zeros
   1) - identity matrix
   2) + diagonal matrix
10) if det(A)=0 then A is singular
   1) + TRUE.
   2) - FALSE.
11) if det(A)≠0 then A is non singular (invertible)
   1) + TRUE.
   2) - FALSE.
12) if any square matrix A and scalar k
   1) + det(kA)=k det(A)
   2) - det(kA)≠k det(A)
13) if U.V=0 then
   1) + U, V are orthagonal vectors
   2) - U,V are parallel vwctors
14) two equivalent vectors must have the same intial point
   1) + TRUE.
   2) - FALSE.
15) $|U+V+W|\leq$
   1) + $|U|+|V|+|W|$
   2) - $|U+V|+|W|$
   3) - $|U|+|V+W|$

16) (U.V)+W=U.(V+W)
    1) - TRUE.
    2) + FALSE.
17) A is 3*6 matrix, what is the largest value for rank(A)
    1) - 6
    2) - 18
    3) + 3
18) ‹1› is an idntity matrix
    1) + TRUE.
    2) - FALSE.
19) the system x+2y=3 , -x+ay=b , if a= -2 , b= -3 the system
    1) - has no solution
    2) + has infinitely many solution
    3) - has one solution
20) the system x+2y=3 , -x+ay=b , if a= -2 , b= 0 the system
    1) + has no solution
    2) - has infinitely many solution
    3) - has one solution