|  |  |
| --- | --- |
| Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_ |

Matrices and determinants

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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|  |  |  |  |  |  |  |  |  |  |  |  |  |  | 1S |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  K |  |  |  | 2U |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  E |  |  |  |  P |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  W |  |  |  |  P |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  | 3I |  N |  C |  O |  N |  S |  I |  S |  T |  E |  N |  C |  Y |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  Y |  |  |  |  R |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  | 4S |  |  |  |  M |  |  |  |  T |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  Q |  | 5S |  Y |  M |  M |  E |  T |  R |  I |  C |  M |  A |  T |  R |  I |  X |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  U |  |  |  |  E |  |  |  |  I |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  A |  |  |  |  T |  | 6S |  C |  A |  L |  A |  R |  M |  A |  T |  R |  I |  X |  |  |
|  |  |  |  |  |  |  |  |  |  |  R |  |  |  |  R |  |  |  |  G |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  | 7L |  O |  W |  E |  R |  T |  R |  I |  A |  N |  G |  U |  L |  A |  R |  M |  A |  T |  R |  I |  X |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  C |  |  |  |  L |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  M |  |  |  |  A |  | 8Z |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  | 9S |  A |  M |  E |  O |  R |  D |  E |  R |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  T |  |  |  |  M |  |  R |  |  |  |  |  |  |  |  |  |
|  |  |  | 10S |  I |  N |  G |  U |  L |  A |  R |  M |  A |  T |  R |  I |  X |  |  A |  |  O |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  I |  |  |  |  T |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  X |  |  |  |  R |  |  |  |  |  |  |  |  |  |  |  |
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| **Across****3.** lAl=0 and adjA.B not equal to zero**5.** A=A'**6.** Diagonal matrix having same elements in principle diagonal**7.** Elements present above the principle diagonal are zeroes in a square matrix**9.** Condition for matrices add and subtraction**10.** Determinant of A equal to zero | **Down****1.** A=-A'**2.** Elements present below the principle diagonal are zeros in a square matrix **4.** Matrix contains equal number of rows and columns **8.** Value of determinant having identical rows |