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1. 1 + 10 = _____
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3. 3 + 8 = _____
4. 4 + 3 = _____
5. 5 + 9 = _____
6. 6 + 7 = _____
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29. 9 + 9 = _____
30. 10 + 7 = _____

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Class-XI
Mathematics
Chapter 2: Relations and Functions

**Question 4:** State whether each of the following statement are true or false. If the statement is false, rewrite the given statement correctly.
(i)  If P = {m, n} and Q = {n, m}, then P × Q = {(m, n), (n, m)}.
(ii) If A and B are non-empty sets, then A × B is a non-empty set of ordered pairs (x, y) such that x ∈ A and y ∈ B.
(iii) If A = {1, 2}, B = {3, 4}, then A × (B ∩ φ) = φ.

**Answer 4:** (i) False
    If P = {m, n} and Q = {n, m}, then
    P × Q = {(m, m), (m, n), (n, m), (n, n)}
(ii) True
(iii) True

**Question 5:** If A = {−1, 1}, find A × A × A.

**Answer 5:** It is known that for any non-empty set, A × A × A is defined as
A × A × A = {(a, b, c) : a, b, c ∈ A}
It is given that A = {−1, 1}
∴ A × A × A = {(−1, −1, −1), (−1, −1, 1), (−1, 1, −1), (−1, 1, 1), (1, −1, −1), (1, −1, 1), (1, 1, −1), (1, 1, 1)}

**Question 6:** If A × B = {(a, x), (a, y), (b, x), (b, y)}. Find A and B.

**Answer 6:** It is given that A × B = {(a, x), (a, y), (b, x), (b, y)}
We know that the Cartesian product of two non-empty sets P and Q is defined as P × Q= {(p, q) : p ∈ P, q ∈ Q}
∴ A is the set of all first elements and B is the set of all second elements.
Thus, A = {a, b} and B = {x, y}

**Question 7:** Let A = {1, 2}, B = {1, 2, 3, 4}, C = {5, 6} and D = {5, 6, 7, 8}. Verify that
i.   A × (B ∩ C) = (A × B) ∩ (A × C)
ii.  A × C is a subset of B × D

**Answer 7:** To verify A × (B ∩ C) = (A × B) ∩ (A × C)
We have B ∩ C = {1, 2, 3, 4} ∩ {5, 6} = φ
∴ L.H.S = A × (B ∩ C) = A × φ = φ
A × B = {(1,1), (1,2), (1,3), (1,4), (2,1), (2,2), (2,3), (2,4)}
A × C = {(1,5), (1,6), (2,5), (2,6)}

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| S.No. | Length of wire on balancing Lechlanche cell (cm) $(l_1)$ | Length of wire on balancing Danell cell (cm) $(l_2)$ | $\dfrac{E_1}{E_2} = \dfrac{l_1}{l_2}$ |
|-------|------|------|------|
| 1 | 267 | 234 | 1.14 |
| 2 | 362 | 267 | 1.35 |
| 3 | 270 | 246 | 1.09 |

$$\text{Mean} = \frac{1.14 + 1.35 + 1.09}{3} = 1.07$$

128. How did Rama and laxman killed him ? By burying him alive
129. Who made the ashram for Sri Rama in Panchavati ? How ? Where did he learn this ? Laxman . In Gurukulam
130. Whom did Sita meet in Athri's ashram ? Anasuya
131. Ganga and Uma were born to whom ? ( Himavan + Manorama ( daughter of Meru)
132. What was amrutha madhanam ? Churning of milk ocean
133. Which was the mountain used ? Which Naga was used as rope ? mantra mountain . vasugi naga
134. Who stood at the head and who stood at the tail of the Vasugi? Asuras at head side and devas at the tail
135. Which poison came out ? who took it ? what was he called then ? Helakalam . Lord Siva . Neelakantan
136. How & Who withheld the mantra parvatha on his back as support ? Vishnu as tortoise
137. Who came out as Lord of ayurvedam ? lord of medicinal science ? Dhanvantri
138. What are the items which came out and who took it ,list in order ? ( Aiakalam , Danvantri , Apsarasgal, Varuni devatha , Uchaisravas, Kosthuba mani , Kamadenu . Laxmi , Iravatham , Amrutham , (Mohini Avtar )
139. Who was Karan ? First brother of Ravana
140. What was the name of the kingdom managed by Karan ? Who was Dhoshanan ? Janasthanam
141. Who informed Ravana about the death of Karan and decimation of Janasthanam ]- Akampanan
142. In which vesham did Ravana approach Janaki in her ashram ? Sanyasi
143. Explain the valour of Jatayu ? Jatayu . a very old vulture without any arms . used its wings to destroy Ravana's chariot . horses . bows before offering its life to save Sita mata . Great sacrifice for the cause of Rama bahakthi .
144. In which way Ravana carried Sita mata ? By air in his vimanam
145. Whom did she see on the way and what did she throw to them ? Vanaras under Sugriva's camp in Rishyamukam and she threw ornaments for identification
146. What relation did Rama mention to Jatayu ? Brother of Dasaratha . Uncle
147. What did Rama do after the death of Jatayu ? He performed last rites personally and gave moksham to Jatayu himself
148. Who is Kabandhan ? A person called Dhanu . hit by Indra and his mouth and stomach are same .
149. How was he killed ? by whom ? Rama and Lakshmana
150. Who directed Rama to take the help of Sugriva to find Sita mata ? Kabhandhan
151. Where was Sabari's ashram ? In Rishya mookam adjacent to . Pamba Saras
152. Which river / Saras ( lake) was nearby her Ashram ? Pamba Saras
153. Who was her Guru ? Mathaga rishi
154. What did her Guru gave her while leaving this world ? Rama nama for chanting
155. Who witnessed Sabari's moksham ? Rama
156. What is the place where Rama lived when Rama came in search of him ? Risha mookam
157. Who was sent by Sugriva to receive Rama ? Hanuman
158. Who was Sugriva's minister ? Hanuman
159. How did Hanuman came originally to meet Rama ? As a Brahmin
160. What was Rama's opinion of Hanuman upon seeing him for the first time ? Most educated and knowledgeable person
161. Which was the capital city of Monkey kingdom ? Kishkintha
162. Who was Tara ? Wife of Vali
163. Who was Sugriva's wife ? Ruma
164. Who was Vali's son ? Angathan
165. Who was the father of Hanuman ( king ) ? Kesari
166. Who was Hanuman's mother ? Anjana Devi
167. Where was Hanuman born ? Anjanachalam
168. Who was Hanuman's Vidhya . Guru ? Sooryan
169. How many 'Viyakaranas 'did Hanuman mastered? Nine
170. What was the boon given by 'Devas' and 'Brahma' to Hanuman ? Siranjeevi . No arms can harm him in warfare
171. Who hit Hanuman when tried to catch sun? Indra
172. Who were the two asuras killed by Vali ? Dhundhubi . Mayavi
173. What was Mathangar's curse on Vali ? Head will break in pieces if he steps into ashram area
174. How did Sugriva used it ? He lived in Mathanga ashram without fear of Vali
175. Who was with Sugriva when he was homeless and in exile ? Hanuman
176. How many trees ( sala vrikahas) did Rama pierce to give confidence to Sugriva ?seven
177. Who were the main team mates of Hanuman in search of Sita mata ? Jambavan , Angathan , Neelan
178. Which direction did they ( Hanuman's team ) go to find Sita ? South
179. What did Rama handover to Hanuman ? Ring inscribed with ' RAMA' nama
180. What was the speciality of the 'kanayashi' or the divine ring ? It carrie the holy nama ' rama'
181. Who was Sampathi ? Vulture king . brother of Jatayu . Sampathi helped in Rama kariyam
182. Who was Sampathi's brother ? Jatayu
183. Who requested Hanuman to jump across the ocean ? Jambavan
184. Which mountain did Hanuman used for his launching ? Mahendra parvat
185. What was the distance did he jump across ocean ? 100 yojana ( nautical miles)
186. Which mountain came across ? Who sent it ? Mainaka parvatam sent by King of seas
187. Who was Simmigai ? Evil force . part of Rakshashi
188. Who was Surasai ? Naga matha sent by Devas to test Hanuman's capacity and skills
189. Whom did he conquer while entering the Lanka city ?Lankini
190. Who was the son of Ravana's head minvater ? Jambumali
191. Who was Ravana's chief minister ? Brahastan
192. What was the name of the garden in which Sita was sitting ? Asoka vanam
193. Under which tree she was waiting for RAMA ? Simshuba
194. Who was Trijata ? Daughter of Vibhishana

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So, these 12th Maths Chapter 3 solutions, is important not only for CBSE or UP Board students, but also other boards using NCERT textbooks as current course books. 4. can be written as follows: There can be any number of rows and any number of columns in a matrix. If the corresponding entries in two rows (or columns) are identical, the determining value is zero. all elements in the main diagonal of a symmetric skew matrix are zeros. Step-by-step solutions for two Maths are provided with video solution and PDF file format. If two (columns) files of a determining factor are interchangeable, the value of the new determining factor is the additive reverse of the value of the given. 8. Question solutions are useful for all students using NCERT Books. Transposition of a Matrix The transposition of a matrix A is formed by interchange of its files and columns and is denoted by A'. Thus, UP Board students can also take the benefits of these solutions. Below are some examples of matrices: – In the above examples, it is said that the horizontal lines of elements constitute, it is said that the rows of the matrix are formed and the vertical lines of the elements, columns of the matrix. Carl Friedrich Gauss (1777 – 1855) also gave the method to solve simultaneous equations with the matrix method. UP Board Solutions for Class 12 Maths Chapter 4 is equal to NCERT Sols for 12th Maths Chapter 4 Determinants. When applying the added tan formula, we need to know if the x and y product is greater than 1 or less. In order to reverse these functions, we must limit their domain and co-domain in such a way that they become one - one and on and these limited values are known as values of principle. To understand the 12thChapter 4, we have to know everything about matrices. 5. So it has 3 files and e e columns columns and B has 3 rows and 3 columns.Page 3 Class XII Maths Chapter 4 solutions is given here. They are also used in cryptography, modern psychology, genetics, industrial management etc. Unit or Identity matrix: If in a square matrix has all elements 0 and each diagonal elements are non-zero, it is called identity matrix and denoted by I. NCERT Solutions for class 12 Maths Chapter 2 Inverse Trigonometric Functions in Hindi Medium and English Medium PDF file format to free download along with NCERT Solutions Apps updated for new academic session 2022-2023. The Previous Years Papers are to know the type and pattern of the questions asked which are designed as per latest CBSE Syllabus for the current academic session. Hayashi, ¢ÃÂÂThe Fakudoi and Determinants in Japanese Mathematics,¢ÃÂÂ in the proc. Zero or Null matrix: If all elements of a matrix are zero, then the matrix is known as zero matrix and denoted by O. Class: 12Maths (English and Hindi Medium)Chapter 4:DeterminantsIn this chapter we shall study determinants up to order three only with real entries. The modern form of trigonometry functions were being used since 17th century by famous mathematician Isaac Newton, James Stirling etc. We know that a function has inverse if and only if it is one ¢ÃÂ one and onto. Laplace (1772), gave general method of expanding a determinant in terms of its complementary minors. Exercise 4 Solution in Hindi 12th Maths Miscellaneous Ex. 4 All Videos If all the rows of a determinant are converted into the corresponding columns, the value of the determinant remains same. 1. Matrix operations are used in electronic physics, computers, budgeting, cost estimation, analysis and experiments. Cauchy, in 1812, presented one on the same subject. Seki Kowa, the greatest of the Japanese Mathematicians of seventeenth century in his work ¢ÃÂÂKai Fukudai no Hoe¢ÃÂÂ in 1683 showed that he had the idea of determinants as well as their expansion. If or all elements of a row or column of a determinant are expressed as sum of two (or more) terms, then the determinant can be express as sum of two (or more) determinants. If there are m rows and n columns in matrix A, its order is m x n and it is read as an m x n matrix. In every question of 12th Maths Chapter 3 Matrix, the explanation of each step is given. Soc., V. Madhya Pradesh and Gujrat Board are also following Textbooks of NCERT for Session 2022-23. Other boards like MP Board, Uttarakhand, Gujrat Board, etc., are also following the textbooks based on NCERT. Equal Matrices: Two matrices are said to be equal if they are of the same order and if their corresponding elements are equal. Class: 12MathsChapter 2:Inverse Trigonometric FunctionsDownload the NCERT solutions of class xii maths chapter 2 Hindi as well as English Medium free to use online or in PDF format including miscellaneous exercise and practice books based on NCERT Books with solutions and answers. In Uttar Pradesh now NCERT Textbooks are implemented for class 12, so students of 10+2 can use these UP Board Solution for Class 12 Maths Chapter 3. The greatest contributor to the theory was Carl Gustav Jacob Jacobi, after this the word determinant received its final acceptance. T. A matrix is an ordered rectangular array of numbers or functions. There are some important theorems/ properties of inverse trigonometric functions. UP board solutions for class 12 Maths Chapter 4 are same as the NCERT Sols for 12th Maths Chapter 4. Square matrix: A square matrix has the number of column equal to the number of rows. He gave the proof of multiplication theorem more satisfactory than Binet¢ÃÂÂs. The value of a determinant does not changes if any of its rows (columns) is multiplied by non-zero real number k and added to another row (column). If it is more than 1, use the above formula and then apply the following formula. Diagonal matrix: If in a square tnatropmi si tI .tamrof FDP ni suoenallecsim htiw esicrexe xis lla stnanimreteD 4 retpahc shtaM 21 ssalC rof snoituloS TRECN daolnwoD .meroeht noitaciplitlum eht ot secuder n = m fo esac laiceps eht rof hcihw ,swor-n dna snmuloc-m fo secirtam owt fo tcudorp eht ot ot ot ot ot ot ot ot ot otnib eiram ,2181 ,Tenib Eram ¨âêàÂ Epihp ¨âêàÂ Seuqcaj .A = âTMâÂ¢A and Xirtam Cirtemmys a Eb ot dias you a xttam era .su mrofni ,melborp emos leef uoy fi ,draoB PU dna ESBC rof shtaM 21 ssalC fo snoitulos edivorp ot yltcefrep gnihtyreve enod evah eW .2 .yltcer yletinifed lliw eW .7 .htaM oykoT eht fo .rednuof lamrof eht dellac eb yam eH . draob SOIN ni neve stbuod ruoy ksa ot murof noissucsid eht nioJ .tcaf siht tuoba erom wonk ot woleb nevig si tnanimreted tuoba yrotsih ehT .xirtam eht fo seirtne eht ro stnemele eht dellac era snoitcnuf ro srebmun ehT .gnivlos melborp ni pleh rieht rof snoitulos eseht esu nac osla standuts Draob pu 21 ssalc os ,noisses wen rof skoobtxet trecn g niwollof gnisu osla era stneduts draoB PU .A ÂÂ¢ = ÂÂ¢A fi cirtemmys weks a eb ot dias si A xirtam erauqs A xirtaM cirtemmyS-wekS .srebmun fo yroeht slh ni stnanimreted desu ,1081 ni ,ssuaG .drow nital a si xirtaM secirtam elbitrevni fo smeroehT .snoitcnuf tnednepedni sa stnanimreted esingocer ot tsrif eht saw ednomredneV .shtaM cimalsi ni deunitnoc yrtemonogirt fo yduts eht ,ega elddim eht gniruD .snmuloc n dna swor m gnivah xirtam si xirtam n x m na larreng ni .3 .Tnemele taht fo rotcafoc eht teg ew neht ,tnemele eht gninatoac nmuloc eht fo rebmun eht si j dna war eht fo rebmun eht si i i i i i i i i i i i(^)1 EW and ã°âêàÂ rotcafoc .tnemele nevig eht fo ronilm eht dellc tnaimreted a sdleiy ,er yeht sa sectnegent gninreted a fo Tnemele Nevig a GNINITELE Nevig a Gninatnoc Wor eht DNA NMULLOC eht Fo Semiritne Gnivomer ¨À Ronim .Xirtam Lanogaid Dellac si ti ,stnemele lanogaid lapicnrp tpecxe 0 stnemele lla sah Know that how to convert a function in terms of others. Class 12 Mathematics Chapter 4 Exercise 4.1 Solutionclass 12 Mathematical Exercise 4.1 All Video Class 12 Mathematics Chapter 4 Exercise 4.2 Solution in Hindi 12 * Mathematics 12 MATHS ESERCIENCE 4.3 DEAL In Hindi 12th Mathematics Exercise 4.3 All videos Class 12 Mathematics Chapter 4 Exercise 4.4 Solution 12 ESERCIZIO MATHS 4.4 SOLUTION In Hindi 12th Mathematics Exercise 4.4 All videos Class 12 Matema ESERCIZIO MATHS 4.5 All Video Class 12 Mathematics Chapter 4 Exercise 4.6 Solution Class 12 Mathematics ESERCIZIO MACCELLANO 4 Solution 12 Mathematics Misc. We indicate matrices for capital letters. He used the word "determinant" in its current sense. Rectangular matrix: It is said that a matrix is a rectangular matrix if the number of rows is not equal to the number of columns. â¨ cos x â â â â â sin jx = 0 ï 'cos x = sin lx â fâ, tan x = 1 â¨ x = l €/4page 2 Download all answers to the question on which NCERT Solutions for Class 12 Maths Chapter 3 matrices are based in English and Middle Hindi. Matrix Column: a column matrix has only one column but any number of rows. The study of trigonometric functions began in the 2nd millennium BC, but in India it flourished in the Gupta period due to Aryabhata. Adding matrix If A and B are two matrices supplied with the same order, their sum is defined as a matrix C whose respective elements are the sum of the corresponding elements of the matrix A and B and we write this as C = A + B. The first Chinese developed the idea of subtracting columns and rows as in simplifying a determining using rods. Since 2tan" (cosâ lx) = tan" â1 (2cosecâ lx) â ‡ = tanÂÂ»ÂÂ¹ÂA(2cosecÂÂ¡Âx) [as 2 tanÂÂ»ÂÂ¹Âx = tanÂÂ»ÂÂ¹Â(2x/(1-xÂ²Â)] e ÂÂ 2 cosÂÂ¡Âx(1 eÂÂ cosÂ²Âx) = 2cosecÂÂ¡Âx(sinÂ²Âx) = 2/sinÂÂ¡Âx eÂÂ 2 sin x,cosÂÂ¡Âx = 2 sinÂ²Â x eÂÂ 2 sinÂ²Â x = 0 eÂÂ 2 sineÂÂ¡Âx (cosÂÂ¡Âx eÂÂ sineÂÂ¡Âx) = 0 eÂÂ 2 sineÂÂ¡Âx = 0 or cosÂÂ¡Âx e ÂÂ sineÂÂ¡Âx = 0 But sineÂÂ¡Âx e ÂÂ 0 k as it does not satisfy the equation. Download here the NCERT Solutions for class 12 Maths chapter 4 Determinants all exercises with miscellaneous exercise in Hindi Medium and English Medium in PDF for the new academic session 2022-23. The value of a determinant gets multiplied by k, if every entry in any of its row (column) is multiplied by k. An important Chinese Text between 300 BC and 200 AD, nine chapters of Mathematical Art(Chiu Chang Suan Shu), give the use of matrix methods to solve simultaneous equations. Lagrange, in 1773, treated determinants of the second and third orders and used them for purpose other than the solution of equations. There are many functions like trigonometric functions are not one ¢ÃÂ one or onto because these functions periodic so these are many one. 6. So, first learn the concepts of the chapter 3 Matrices to do Chapter 4 Determinants. Determinants.

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