

Linear Algebra.d

- How many digits are in the decimal number system?
- What base is the hexadecimal number system?
- What is 2^5?
- What is the range of decimal values you can write in 8 bits?
- 0010 1010
- If 'A' is ASCII 65, then 'T' is ASCII
- The largest decimal number you can write with four binary digits is:
- How many numbers can you write with 4 binary digits?
- How many numbers can you write with one binary digit?
- 10 All keyboard keys have ASCII values.
- On solving 2p 3q 4r + 6r 2q + p, the answer will be
- The answer of factorization of the expression 4z(3a + 2b 4c) + (3a +12 2b - 4c) is
- 13 By factorizing the expression 2bx + 4by - 3ax - 6ay, the answer must be
- If -4x + 5y is subtracted from 3x + 2y then the answer will be
- On solving the algebraic expression -38b/2, the answer will be
- Which of the following is the numerical coefficient of x2y2?
- Which of the following is the numerical coefficient of -5xy?
- pqr is what type of polynomial?
- 19 The value of $x^2 - 5$ at x = -1 is-







- a^2-b^2 is a product of
- What is the value of $(-1)^{-1}$?
- Which of the following is the value of 'm' in $6^m/6^{-3} = 6^{5}$?
- Which of the following is the standard form of 0.00001275?
- Which of the following is used as a form of 5.05 * 106?
- For which of the following is m = 8?
- 1 micron = 1/1000000 m. which of the following is its standard form?
- $[(1/2)^{-1} + (2/3)^{2} (3/4)^{0}]^{-2}$ is equal to:
- 28) Which of the following = $(100 - 99^\circ) * 100$?
- What is the reciprocal of $(-3/4)^0$?
- Which of the following is the value of $(4/5)^-9/(4/5)^-9$?
- The linear equation 3x-11y=10 has:
- 3x+10 = 0 will has:
- The solution of equation x-2y = 4 is:
- The value of k, if x = 1, y = 2 is a solution of the equation 2x + 3y = k.
- Point (3, 4) lies on the graph of the equation 3y = kx + 7. The value of k 35) is:
- The graph of linear equation x+2y = 2, cuts the y-axis at:
- Any point on the line x = y is of the form:
- The graph of x = 3 is a line:
- In equation, y = mx + c, m is:





- If x and y are both positive solutions of equation ax+by+c=0, always lie
- A pair of equations to determine the value of 2 variables is called
- Any new equation obtained by raising both members of an equation to the same power may have solutions is called
- 43 An equation involving only a linear polynomial is called a
- The methods to solve a pair of simultaneous linear equations are
- 45 Linear equation is also called
- 46 Solve the system of equations below: y=3x-5 y=-2x+10
- If you don't see a variable listed in a linear system in three variables, 47 you should note that the variable has a coefficient of:
- 48 What are the most common letters we will see for our variables?
- 49 Solve this system. 4x+y=12 x+y=6
- How many more equations are needed to complete this linear system 50 with three variables?
- 51 In the depreciation function V = f(t) then the t is
- 52 The product sold price is \$50 USD then the revenue function is
- The function describing relationship of price related to suppliers agreed 53 quantities to produce the material and to supply it is classified as
- 54 In the function quantity = f(price per unit), the independent variable is
- 55 The breakeven point that represents level of output at which
- In the function P(x) = 85x (50x + 150000), the amount which indicates 56) the increase in profit by every sold unit is
- The purchase cost is 30,000 and the depreciation is 5,000 then the 57 depreciation function is
- The total revenue is \$40,000 USD, the variable cost is \$10,000 USD and 58 the fixed cost is \$40,000 USD then the prot or loss is











- The revenue function is R(x) = 50x and the cost function is C(x) = 25x + 200000 then the break even point(in units) is
- (60) The product's raw material cost and labor costs are type of
- The price of a single unit is \$6 USD and the quantity sold is 300 units then the revenue is
- The flow of money in the company because of providing services or from selling products are classified as
- 63 The rate of asset depreciation is constant in the method
- (64) In the function P(x) = 85x-(50x+150,000), the profit for 5,000 units is
- The depreciation function V = f(t) is
- $\stackrel{\textstyle (66)}{\textstyle}$ In calculating total cost, the selling price for all units is
- In the depreciation function V = f(t) then the V is
- $\binom{68}{}$ The decrease in prices of a market offering in a market results in
- The type of linear function written as quantity supplied = f(market price) is classified as:
- $\binom{70}{1}$ In the function quantity = f(price per unit), the dependent variable is
- If a matrix has 6 elements, then number of possible orders of the matrix can be
- $\binom{72}{}$ If A = diag(3, -1), then matrix A is
- Total number of possible matrices of order 2×3 with each entry 1 or 0 is
- 1 If A is a square matrix such that $A^2 = A$, then $(I + A)^2 3A$ is
- (75) If matrices A and B are inverse of each other then
- The diagonal elements of a skew symmetric matrix are
- $\binom{77}{}$ If a matrix A is both symmetric and skew symmetric then matrix A is









- What is the objective function (Z) to be maximised in this linear programming problem (where Z is total profit in £s)?
- Total profits are maximised when the objective function (as a straight line on a graph) is:
- What is the equation of the labour constraint line for the welding 80 department in this linear programme?
- What is the equation of the labour constraint line for the assembly 81) department in this linear programme?
- What is the solution to this linear programming problem in terms of the 82 respective quantities of X and Y to be produced if profits are to be maximised?
- 83 Which of the following is NOT an assumption of linear programming?
- What can we find by using the following formula? Total Fixed Costs / 84 Contribution per unit
- 85 Budgeted output minus break-even output gives us the:
- 86 In break-even analysis we assume:
- If each unit of output can be sold at a price of £5 and incurs variable 87 costs which are constant at £3 per unit, and if the fixed costs already incurred are £15,000, then the break-even output is: