

## Mathematics.d

- To solve a quadratic polynomial, we have to ...
- Y, X, G in polynomials called ...
- ... theorem states that If P(x) is a polynomial, and  $P(x) \neq P(y)$  for (x < y), then P(x) takes every value from P(x) to P(y) in the closed interval [x, y].
- ... is an expression constructed with one or more terms of variables with constant exponents
- Solving the polynomial equation, the first step is ...
- Two or more polynomials when multiplied result in ...
- In the polynomial  $5x^3 + 5x^2 + 4x + 2$ , the number of terms are ...
- A monomial is an expression which contains ... term(s)
- The terms of polynomials are the parts of the equation which are generally separated by ...
- 10 A binomial is a polynomial expression which contains ... term(s)
- Expanding the following equation -2x(x 3y 2z) results ...
- 12 Simplify the following 4(2x-1) - 3x results ...
- Factorize the following perfect square trinomial  $(m + n)^2 + 12(m + n) +$ 13) 36, the result is ...
- Factorize the following perfect square trinomial Z2 + 1/z2 2, the result 14 is ...
- 15 Factor  $x^2 + 10x + 49$ , the result is ...
- Solve the following equation by completing the square  $x^2 + 8x 20 =$ 16) 0, the result is , ...
- Solve the following equation by completing the square  $6x^2 + 69x 36$ 17 = 0, the result is , ...
- Completing the square means manipulating the form of the equation so 18 that the left side of the equation is ...





- Factorize the following perfect square trinomial  $x^2 + x + \frac{1}{4}$ , the result
- 20 A quadratic equation is a polynomial of ...degree
- Graphing is another method of solving ... Formula
- ... allow us to rewrite a polynomial into simple form, to determine the 22 solution
- 23 The GCF of  $6x^4 - 8x^2 + 4x$  is ...
- 24 The GCF of Find the GCF of  $9x^2 - 3x - 15$  is ...
- 25 Factor  $6x^2 + x - 5$ , the result is ...
- Solve the following trinomial by any suitable method,  $3x^2 8x 60$ , 26 the result is ...
- Solve the following trinomial by any suitable method, 30a^2+ 57ab -27` 168b^2, the result is...
- Solve the following trinomial by any suitable method,  $7x^2 + 79x + 90$ , the result is ...
- Solve the following trinomial by any suitable method,  $2x^2 + x 45$ , 29 the result is ...
- Solve the following trinomial by any suitable method,  $3x^2 10x + 8$ , 30 the result is ...
- Find the derivative of the function: f(x) = 1974, the result is ...
- 32 Find the derivative of the function:  $f(x) = x^2 + 3x + 9$ , the result is ...
- 33 Find the derivative of the function:  $f(x) = x^1/2$ , the result is ...
- The derivative of the function:  $f(x) = 5x^2 (x + 4)$  is ...
- 35 The derivative of the function:  $f(x) = 5(x + 7)^2$  is ...
- 36 The derivative of a function is ...
- 37 The derivative is closely related to the ... notation





- $\binom{38}{}$  The derivative of a function at a point is ...
- The derivative of the function:  $f(x) = y^-1 5y^-5 8y^3 4$  is ...
- $\binom{40}{}$  The derivative of the function:  $f(x) = 7x^2 + 8x + 27$  is ...
- $\stackrel{41}{}$  The value of is 10g2 64 is ...
- 42 The value of is log8 0.25 is ...
- $\stackrel{\text{43}}{}$  The value of is log6 6 is ...
- Find log 3 x = 2, the result is ...
- Loga(mn) equals to ...
- (46) If  $\log 27 = 1.431$ , then the value of  $\log 9$  is: ...
- Rewrite the expression  $9^3 = 729$  in logarithmic form, the answer is ...
- Rewrite the expression  $b = a^- r$  in logarithmic form, the answer is ...
- $\binom{49}{}$  log5 x = -3 is ...
- (50) log2 32 = y is ...
- (51) Log3 (7x + 3) = log3 (5x +9) is ...
- (52) Log7 (x 2) + log7 (x + 3) = log7 14 is ...
- (53) In(4x -1) = 3 is ...
- Solve  $\log 3 (7x + 2) = 2$ , the result is ...
- Solve Log4 x + log4 (x -12) = 3, the result is ...
- (56) Log4  $(2x + 1) = \log 4 (x + 2) \log 4 4$  is ...
- Solve log(5x 11) = 3, the result is ...
- (58) Solve log2 (x +1) log2 (x 4) = 2, the result is ...









- Log8 x + log8 (x + 6) = log8 (5x + 12) is ...
- 60 Solve: log(x - 2) - log(2x - 3) = log 2, the result is ...
- 61 Factor the trinomial y2 + 7y - 144, the result is ...
- 62 Factor the trinomial  $x^2 - 22x + 117$ , the result is ...
- Use the quadratic formula to find the roots of  $2x^2-5x+2=0$ , the result 63 is ...
- 64 Expand (2x - 2)(2x + 2), the result is ...
- 65 Solve by completing square  $x^2 + 4x - 12 = 0$ , the result is ...
- Solve using factoring by grouping 18a<sup>3</sup> b<sup>3</sup>- 27a<sup>2</sup> b<sup>3</sup> + 36a<sup>3</sup> 66 b^2, the result is ...
- Solve using factoring by grouping ab  $(x^2 + y^2) xy (a^2 + b^2)$ , the 67 result is ...
- Solve using factoring by grouping  $6ab b^2 + 12ac 2bc$ , the result is 68
- 69 Solve using factoring by grouping  $x^3 - 3x^2 + x - 3$ , the result is ...
- 70 Solve using factoring by grouping 15ab^2- 20a^2 b, the result is ...
- 71) A function has ...
- Represent  $y = x^2 4x + 1$  using function notation and solve for y at  $x = x^2 4x + 1$ 72 3, the notation representation is  $f(x) = x^2 - 4x + 1$  and the result is ...
- Given the function notation  $f(x) = x^2 2x 4$ . Find the value of x 73 when f(x) = 4. The result is ...
- The possible values of x that will make an equation true is called ...
- 75 The output value of a function is called...
- There is only one ... for a function
- We can determine the domain of a function ...
- 78 Find the domain of f(x) = 9x - 4, the result is ...









- A linear function has the general form of f(x) = ax + b, where a and b are numerical values and a...
- To find the domain of a linear function, set the denominator to ... and calculate the value of the variable



