BRINDHAVAN HIGHER SECONDARY SCHOOL BRINDHAVAN NAGAR, SUKKIRAN PATTIL PATTUKOTTAI - 614 615. PHONE: 201677

(1) 8 (2) 5 (3) 6 (4) 7 In a class, of 50 boys, 35 boys play carom and 20 boys play chess then the number of boys play both game is (4) 5 (2) 30 (3) 15 (4) 10 Which one of the following, regarding sum of two irrational numbers, is true? (1) always an irrational (2) may be a rational or irrational number (4) always an integer The length and breath of a rectangular plot are 5×10³ and 4×10⁴ meters respectively. Its area is (1) 9×10¹ m² (2) 9×10° m² (4) 22×10¹0 m² (4) 20×10²0 m² The type of the polynomial 4-3x³ is (1) constant polynomial (4) cubic polynomial (4) cubic polynomial (5) always an integer (6) always an integer (7) and 4×10⁴ meters respectively. Its area is (1) 9×10¹ m² (2) 9×10° m² (3) 2×10¹0 m² (4) 20×10²0 m² The type of the polynomial (2) llar polynomial (3) quadratic polynomial (4) cubic polynomial (4) cubic polynomial (5) always all significant (6) always all significant (7) always all significant (7) always all significant (8) always all significant (9) always all significant (1) 100° (2) 105° (3) 85° (4) 90° If the exterior angle of a triangle is equal to the sum of two (1) Exterior angles (2) Interior opposite (3) Alternate angles (4) Interior angles (1) 100° (2) 105° (3) 85° (4) 90° If the y-coordinate of a point is zero, then the point always lies (1) in the I quadrant (2) in the II quadrant (2) in the II quadrant (3) on x-axis (4) on y-axis (1) (2a, 3b) (2a, 2b) (2a, 2b) (3a) (2a, b) (4a) (2a, 3b) (2a, 2b) (2a, 2a, 2b) is (1a, 2a, 2b) i	நேரம்	: 2.30 LD600fl	MATHEMATICS	
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Add the following polynomials and find the degree of the result polynomials				= 1/1 = 1/4
	9. /	Add the following polyno	omials and find the degree of the resu	It polynomial

- P(-2) = (-2) -4(-2) -2(-2) +20 20. Show that (x+2) is a factor of $x^3 - 4x^2 - 2x + 20$ = -8 - 16 + 4 + 20 The angles of a triangle are in the ratio 1:2:3 find measure of each angle of the 21. x+2x+3x = 180 triangle. 30,60,90 2 = 30 22. Find the length of a chord which is at a distance of 2 $\sqrt{11}$ cm from the centre of a circle Length of chord AB=2XAC AC = locm of radius 12 cm. 23. Find the distance between the pair of points (3,4) and (-7,2). d= 2 1/26 cmits 24. If the centroid of a triangle is at (4,-2) and two of its vertices are (3,-2) and (5,2)then find the third vertex of the triangle. If $\tan A = \frac{2}{3}$ then find all other trigonometric ratios. $\cos A = 3\sqrt{13}$ 25. SinA=== 26. Verify the equality sin 30° cos 60° + cos 30° sin 60° = sin90°. (子)(子)+(至)(至)二十十字二十二十 Solve by the method of elimination: 2x - y = 3; 3x + y = 7. 27. If (3, x) is the mid-point of the line segment joining the points A(8, -5) and B (-2, 11), 28. then find the value of x. X=3 Answer any 10 questions. Q. No 42 is compulsory. III 29. If $A = \{b, c, e, g, h\}$, $B = \{a, c, d, g, i\}$ and $C = \{a, d, e, g, h\}$ then show that = {a,c,d,e,g,h,i3 A-(BUC) = (A-B) \cap (A-C) A-(BUC) = {by -0} A-c = {by -0} A-B= (b,e,h3 30. hockey, 42 play both cricket and football, 38 play both football and hockey, 40 play both cricket and hockey and 16 play all the three games,. If each student participate in atleast one game, then find (i) the number of students in the college (ii) the number of students who play only one game. 174+116+102 = 392 31. Arange in ascending order $\sqrt[3]{2}$, $\sqrt[3]{4}$, $\sqrt[3]{3}$ LCM = 12, Simplify (2.75 × 107) +(1.23 × 108) (-505 × 108 32. Find quotient and the remainder when f(x) is divided by 33. $g(x) f(x) = 8x^3 - 6x^2 + 15x - 7, g(x) = 2x + 1.$ Factorise $x^3 - 5x^2 - 2x + 24$ using synthetic division method.

 The angles of a quadrilateral are in the ratio 2:4:5:7. Find all the angles. 40, 80, 100, 146 34. 35. Show that the points A (7,10), B (-2,5), C (3,-4) are the vertices of a right angled 36: 106 +106 = 212 The mid-point (x, y) of the line joining (3,4) and (p, 7) lies on 2x + 2y + 1 = 0, then 37. what will be the value of p? 2(對)+2(計)+1=0 Find the values of (cos 0° + sin 45° + sin 30°) (sin90° - cos45° + cos 60°) = (1+ V2 38. = (1+ 1/2+3) (1-1/2+3) Find the value of 8 sin2x cos 4x sin 6x, where $x = 15^{\circ}$. 39. Find the coordinates of the point which divides the line segment joining the points 40. (3,5) and (8,-10) internally the ratio 3:2. (6,-4) If the quotient on dividing $x^4 + 10x^3 + 35x^2 + 50x + 29$ by (x + 4) is $x^3 - ax^2 + bx + 6$, then find the value of a, b and also reminder. Verify $(A \cup B)' = A' \cap B'$ using Venn diagram. IV. Answer the following question. (a) Construct, the Δ LMN such that LM=7.5 cm. MN=5cm, and LN=8cm. Locate its 43. centroid. (OR) (b) Construct the right angled triangle PQR whose perpendicular sides are 4.5cm and 6 cm. Also locste its circumcentre and draw the circumcircle. (a) Draw the graph for y=4x-1: (OR) 44. (b) Solve graphically 3x + 2y = 49; 9x + 6y - 12 = 0.
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