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Polynomials Class 9 NCERT Books for 9th Class Maths Chapter 2 and also gain more knowledge on the concepts of Maths. 2. Where can I download NCERT Books for Class 9 Maths Chapter 2 Polynomials PDF free? You can download Class 9 Maths Polynomials NCERT Textbooks PDF? All you have to do is tap on the quick links available for 9th Class Maths Polynomials NCERT Textbooks PDF here and you will be directed to a new page having the download option. Click on the download option and save them for future reference and prepare as and when you need them. Question 1. Find the zeros of each of the following quadratic polynomials and verify the relationship between the zeros and their co-efficients: Solution: (i) $f(x) = x^2 - 2x - 8$ Question 2. For each of the following, find a quadratic polynomials by factorization. Solution: (i) Given that, sum of zeroes (S) = -\(\frac{8}{3}\\) and product of zeroes (P) = \(\\frac \{ 4 \} \{ 3 \}\) Required quadratic expression, Question 3. If α and β are the zeros of the quadratic polynomial $p(y) = 5y^2 - 7y + 1$, find the value of \(\\frac \{ 1 \} \\ \alpha \\ +\\frac \{ 1 \} \\ \alpha \\ \ $\{1\} \{ beta \} \$ Solution: Question 5. If α and β are the zeros of the quadratic polynomial $f(x) = x^2 - x - 4$, find the value of \(\frac \{1}\{ \alpha \} -\frac \{1}\ 7. If one zero of the quadratic polynomial $f(x) = 4x^2 - 8kx - 9$ is negative of the value of k. Solution: Question 9. If α and β are the zeros of the quadratic polynomial $f(x) = 4x^2 - 8kx - 9$ is negative of the value of k. Solution: Question 9. If α and β are the zeros of the quadratic polynomial $f(x) = 4x^2 - 8x - 1$, find the value of k. $\alpha 2\beta + \alpha \beta 2$. Solution: Question 10. If α and β are the zeros of the quadratic polynomial f(x) = 6x4 + x - 2, find the value of $(\alpha \beta + \alpha \beta \beta$ quadratic polynomial p(s) = 3s2 - 6s + 4, find the value of \(\frac \ alpha \ +\frac \ beta \ \tanha \ +\frac \ 1 \ \alpha \ 1 \ \alp α and β are the zeros of the quadratic polynomial f(x) = x2 - px + q, prove that: Solution: Question 15. If α and β are the zeros of the quadratic polynomial such that $\alpha + \beta = 24$ and $\alpha - \beta = 8$, find a quadratic polynomial zeros are \(\\frac \{ 1 \}\{ 2\\alpha +\\beta \}\\) and \(\\frac \{ 1 \}\{ 2\\alpha +\\beta \}\) Solution: Question 20. If \(\alpha\) and \(\alpha\) Solution: Question 20. If \(\alpha\) and \(\alpha\) are the zeros of the quadratic polynomial \(\alpha\) = \(\alpha\) + \(\alpha\) and \(\alpha\) are the zeros of the quadratic polynomial \(\alpha\) are the zeros of the quadratic polynomial \(\alpha\) are the zeros of the quadratic polynomial \(\alpha\) and \(\alpha\) are the zeros of the quadratic polynomial \(\alpha\) and \(\alpha\) are the zeros of the quadratic polynomial \(\alpha\) and \(\alpha\) are the zeros of the quadratic polynomial \(\alpha\) and \(\alpha\) are the zeros of the quadratic polynomial \(\alpha\) and \(\alpha\) are the zeros of the quadratic polynomial \(\alpha\) are the zeros of the polynomial \(\alpha\) are the zeros of the quadratic polynomial \(\alpha\) are the zeros of the quadratic polynomial \(\alpha\) are the zeros of the polynomial \(\alpha\) are the zeros of the polynomial \(\alpha\) are the zeros of the quadratic polynomial \(\alpha\) are the zeros of the zeros of the polynomial \(\alpha\) are the zeros of z Solutions Do you need help with your Homework? 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Textbook NCERT Class Class 9SubjectMathsChapterChapter 2Chapter NamePolynomialsCategoryNCERT Exemplar Class 9 Maths Solutions (MCQs)Question 1:Which one of the following is a polynomial?Solution:Question 2:√2 is a polynomial of degree(a) 2 (d) 7Solution:(a) Degree of 4x4 + Ox3 + Ox5 + 5x + 7 is equal to the highest power of variable x. Here, the highest power of x is 4, Hence, the degree of a polynomial is 4. Question $-\sqrt{2}x^{\circ}$. Hence, $\sqrt{2}$ is a polynomial of degree 0, because exponent of x is 0.Question 3:Degree of the polynomial 4x4 + 0x3 + 0x5 + 5x + 7 is(a) 4 (b) 5 (c) 3 (b) 1(c) any natural number (d) not definedSolution:(d) The degree of zero polynomial is not defined, because in zero polynomial, the coefficient of any variable is zero i.e., Ox2 or Ox5,etc. Hence, we cannot exactly determine the degree of variable. Question 5:If p (x) = x2 -4:Degree of the zero polynomial is(a) 0 $2\sqrt{2x} + 1$, then p $(2\sqrt{2})$ is equal to(a) 0 (d) $8\sqrt{2}$ +1Solution:(b) Given, $p(x) = x^2 - 2\sqrt{2}x + 1$...(i)On putting $x = 2\sqrt{2}$ in Eq. (i), we get $P(2\sqrt{2}) = (2\sqrt{2})(2\sqrt{2}) + 1 = 8 - 8 + 1 = 1$ Question 6:The value of the polynomial $5x - 4x^2 + 3$, when x = -1 is(a)-6 (d) -2Solution:(a) Let p (x) = $5x - 4x^2 + 3$...(i) On putting x = -1 in Eq. (i), we getp(-1) = $5(-1) - 4(-1)^2 + 3 = -5 - 4 + 3 = -6$ Question 7: If p(x) = x + 3, then p(x) + p(-x) is equal to(a) 3 (d) 6Solution:(d) Given p(x) = x+3, put x = -x in the given equation, we get p(-x) = -x+3Now, p(x)+p(-x) = x+3+(-x)+3=6Question 8:Zero of the zero polynomial (c) 0 (d) not defined Solution:(c) Zero of the zero polynomial is any real number.e.g., Let us consider zero polynomial be 0(x-k), where k is a real number For determining the zero, putx-k = 0 = x = k Hence, zero of the zero polynomial be any real number. Question 9:Zero of the polynomial p(x) = 2x + 5 is(a) is(a) 0 (b) 1 (d)5/2Solution:(b) Given, p(x) = 2x + 5For zero of the polynomial, put p(x) = 0 $\therefore 2x + 5 = 0 = 5$ -5/2Hence, zero of the polynomial p(x) is -5/2. Question 10:One of the zeroes of the polynomial p(x) = 0 $\therefore 2x + 5 = 0 = 5$ -5/2Hence, zero of the polynomial p(x) = 0 $\therefore 2x + 5 = 0 = 5$ -5/2Hence, zero of the polynomial p(x) = 0 $\therefore 2x + 5 = 0 = 5$ -5/2Hence, zero of the polynomial p(x) = 0 $\therefore 2x + 5 = 0 = 5$ -5/2Hence, zero of the polynomial p(x) = 0 $\therefore 2x + 5 = 0 = 5$ -5/2Hence, zero of the polynomial p(x) = 0 $\therefore 2x + 5 = 0 = 5$ -5/2Hence, zero of the polynomial p(x) = 0 $\therefore 2x + 5 = 0 = 5$ -5/2Hence, zero of the polynomial p(x) = 00. (d)-2Thinking Process(i) Firstly, determine the factor by using splitting $(b)\frac{1}{2}$ (c)-1 method.(ii) Further, put the factors equals to zero, then determine the values of x.Solution:(b) Let p (x) = $2x^2 + 7x^4 = 2x^2 + 8x^4$ [by splitting middle term] = $2x(x + 4) - 1(x + 4) = 0 = x^4$ and x = -4Hence, one of the polynomial p(x) is ½.Question (d) 50Solution:(d) Let $p(x) = x51 + 51 \dots$ (i)When we divide p(x) by x+1, we get the remainder p(-1)On putting p(-1)0 putting p(-1)1 putting p(-1)2 putting p(-1)3 putting p(-1)4 putting p(-1)5 putting p(-1)6 (d)-2Solution:(c) Let $p(x) = 2x^2 + kx$ Since, $p(x) = 2x^2 + kx$ Since (b) 5 - x (c) 5x - 1(x + 1) is a factor of x3 + x2 + x + 1. So, x = -1 is zero of x3 + x2 + x + 1(-1)3 + (-1)2 + (-1) + 1 = 0 = > -1 + 1 - 1 + 1 = 0 = > 0 = 0 Hence, our assumption is true. Question 14: One of the factors of (25x2 - 1) + (1 + 5x)2 is (a) 5 + x(d) 10xSolution:(d) Now, $(25x^2 - 1) + (1 + 5x)^2 = 25x^2 - 1 + 1 + 25x^2 + 10x$ [using identity] (a + b)2 = a2 + b2 + 2ab] = 50x2 + 10x = 10x (5x + 1)Hence, one of the factor of given polynomial is 10x. Question 15: The value of 2492 - 2482 is (a) 12 (b) 477 (c) 487 (d) 497Solution:(d) Now, 2492 - 2482 = (249 + 248)(249 - 248) [using identity, a2 - b2 = (a - b)(a + b)] = $497 \times 1 = 497$. Question 16:The factorization of $4x^2 + 8x + 3$] (b) (2x+1)(2x+3)(c)(2x+2)(2x+5) (d) (2x+2)(2x+5) (e) (2x+3)((d) Now, (x + y)3 - (x3 + y3) = (x + y) - (x + y)(x2 - xy + y2)[using identity, a3 + b3 = (a + b)(a2 - ab + b2)] = (x + y)(x2 + y2 + 2xy - x2 + xy - y2)[using identity, (a + b)2 = a2 + b2 + 2 ab)] = (x + y)(x2 + y2 + 2xy - x2 + xy - y2)[using identity, (a + b)2 = a2 + b2 + 2 ab)] = (x + y)(x2 - xy + y2)[using identity, (a + b)2 = a2 + b2 + 2 ab)] = (x + y)(x2 - xy + y2)[using identity, (a + b)2 = a2 + b2 + 2 ab)] = (x + y)(x2 - xy + y2)[using identity, (a + b)2 = a2 + b2 + 2 ab)] = (x + y)(x2 - xy + y2)[using identity, (a + b)2 = a2 + b2 + 2 ab)] = (x + y)(x2 - xy + y2)[using identity, (a + b)2 = a2 + b2 + 2 ab)] = (x + y)(x2 - xy + y2)[using identity, (a + b)2 = a2 + b2 + 2 ab)] = (x + y)(x2 - xy + y2)[using identity, (a + b)2 = a2 + b2 + 2 ab)] = (x + y)(x2 - xy + y2)[using identity, (a + b)2 = a2 + b2 + 2 ab)] = (x + y)(x2 - xy + y2)[using identity, (a + b)2 = a2 + b2 + 2 ab)] = (x + y)(x2 - xy + y2)[using identity, (a + b)2 = a2 + b2 + 2 ab)] = (x + y)(x2 - xy + y2)[using identity, (a + b)2 = a2 + b2 + 2 ab)] = (x + y)(x2 - xy + y2)[using identity, (a + b)2 = a2 + b2 + 2 ab)] = (x + y)(x2 - xy + y2)[using identity, (a + b)2 = a2 + b2 + 2 ab)] = (x + y)(x2 - xy + y2)[using identity, (a + b)2 = a2 + b2 + 2 ab)] = (x + y)(x2 - xy + y2)[using identity, (a + b)2 = a2 + b2 + 2 ab)] = (x + y)(x2 - xy + y2)[using identity, (a + b)2 = a2 + b2 + 2 ab)] = (x + y)(x2 - xy + y2)[using identity, (a + b)2 = a2 + b2 + 2 ab)] = (x + y)(x2 - xy + y2)[using identity, (a + b)2 = a2 + b2 + 2 ab)] = (x + y)(x2 - xy + y2)[using identity, (a + b)2 = a2 + b2 + ab)] = (x + y)(x2 - xy + y2)[using identity, (a + b)2 = a2 + b2 + ab)] = (x + y)(x2 - xy + y2)[using identity, (a + b)2 = a2 + b2 + ab)] = (x + y)(x2 - xy + y2)[using identity, (a + b)2 = a2 + b2 + ab)] = (x + y)(x2 - xy + ab)[using identity, (a + b)2 = a2 + b2 + ab)[using identity, (a + b)2 = a2 + ab)[using identity, (a + b)2 = a2(b) abc(c) 3abc (d) 2abcSolution:(d) Now, a3+b3+c3=(a+b+c)(a2+b2+c2-ab-be-ca)] = 0+3abc[using identity, a3+b3+c3=3abcExercise 2.2: Short Answer Type QuestionsQuestion 1:Which of the following expressions are polynomials? Justify your answer, Solution: Question 2: Write whether the following statements are true or false. Justify your answer. '(i) A Binomial can have degree 5.(iv) Zero of a polynomial is always 0.(v) A polynomial cannot have more than one zero.(vi) The degree of the sum of two polynomials each of degree 5 is always 5. Solution:(i) False, because a binomial has exactly two terms.(ii) False, because every polynomial and also a binomial](Hi) True, because a binomial is a polynomial whose degree is a whole number greater than equal to one. So, it may have degree 5.(iv) False, because zero of a polynomial can be any real number e.g., p(x) = x - 2, then 2 is a zero of polynomial e.g., p(x) = x - 2, then 2 is a zero of polynomial can be any real number e.g., p(x) = x - 2, then 2 is a zero of polynomial can be any real number e.g., p(x) = x - 2, then 2 is a zero of polynomial e.g., p(x) = x - 2, then 2 is a zero of polynomial e.g., p(x) = x - 2, then 2 is a zero of polynomial e.g., p(x) = x - 2, and p(x) = x - 2, then 2 is a zero of polynomial e.g., p(x) = x - 2, then 2 is a zero of polynomial e.g., p(x) = x - 2, then 2 is a zero of polynomial e.g., p(x) = x - 2, and p(x) = x - 2, then 2 is a zero of polynomial e.g., p(x) = x - 2, and p(x) = x - 2, then 2 is a zero of polynomial e.g., p(x) = x - 2, and p(x) = x - 2, then 2 is a zero of polynomial e.g., p(x) = x - 2, and p(x) = x - 2, then 2 is a zero of polynomial e.g., p(x) = x - 2, then 2 is a zero of polynomial e.g., p(x) = x - 2, and p(x) = x - 2, then 2 is a zero of polynomial e.g., p(x) = x - 2, and p(x) = x - 2, then 2 is a zero of polynomial e.g., p(x) = x - 2, and p(x) = x - 2, and p(x) = x - 2, then 2 is a zero of polynomial e.g., p(x) = x - 2, and p(x) = xFalse, because the sum of any two polynomials of same degree is not always same degree e.g., Let f(x) = x4 + 2 and g(x) = -x4 + 4x3 + 2x + 2 which is not a polynomial of degree 4. Exercise 2.3: Short Answer Type Questions Question 1: Classify the following polynomials as polynomials in one variable, two variables etc.(i) x2 + x +1 (ii) y3 - 5y(iii) xy + yz +zx (iv) x2 - Zxy + y2 +1Solution:(i) Polynomial xy + yz + zx is a one variable polynomial, because it contains only one variable i.e., y.(iii) Polynomial xy + yz + zx is a three variables polynomial, because it contains three variables x, y and z.(iv) Polynomial x2 – Zxy + y2 + 1 is a two variables x and y.Question 2:Determine the degree of each of the following polynomials.(i) 2x-1 one, Decause the maximum exponent of x is one.(ii) Degree of polynomial x3 - 9x + 3x is five, because the maximum exponent of x is zero, because the maximum exponent of x is seven, because the maximum exponent of x is five.(iv) Degree of polynomial x3 - 9x + 3x is five, because the maximum exponent of x is zero, because the zero and x is zero. 4:Write the coefficient of x2 in each of the following Solution:Question 5:Classify the following as a constant, linear, quadratic and cubic polynomialsThinking Process(i) Firstly check the maximum exponent of a variable is 1, then it is a linear polynomial.(iv) If the maximum exponent of a variable is 2, then it is a cubic polynomial 3x3 is a cubic polynomial 3x3 is a cubic polynomial 3x3 is a cubic polynomial 2 - x2 + x3 is a cubic polynomial. of x is 3.(iii) Polynomial 5t - $\sqrt{7}$ is a linear polynomial, because maximum exponent of t is 1.(iv) Polynomial 4- 5y2 is a quadratic polynomial, because maximum exponent of x is 1.(vii) Polynomial y3 – y is a cubic polynomial, because maximum exponent of t is 2.(x) Polynomial $\sqrt{2}x$ -1 is a quadratic polynomial, because maximum exponent of t is 2.(x) Polynomial $\sqrt{2}x$ -1 is a quadratic polynomial, because maximum exponent of t is 2.(x) Polynomial $\sqrt{2}x$ -1 is a quadratic polynomial, because maximum exponent of t is 2.(x) Polynomial $\sqrt{2}x$ -1 is a quadratic polynomial, because maximum exponent of t is 2.(x) Polynomial $\sqrt{2}x$ -1 is a quadratic polynomial, because maximum exponent of t is 2.(x) Polynomial $\sqrt{2}x$ -1 is a quadratic polynomial, because maximum exponent of t is 2.(x) Polynomial $\sqrt{2}x$ -1 is a quadratic polynomial, because maximum exponent of t is 2.(x) Polynomial $\sqrt{2}x$ -1 is a quadratic polynomial example of a polynomial, which is(i) monomial of degree 2. Solution:(i) The example of binomial of degree 2 is x2 – 5x + 4 or 2x2 -x-1Question 7: Find the value of the polynomial 3x3 -4x2 + 7x - 5, when x = 3 and also when x = -3. Solution: Let p(x) = 3x3 - 4x2 + 7x - 5 at x = 3, $p(3) = 3(3)3 - 4(3)2 + 7(3) - 5 = 3(-27) - 4 \times 9 - 21 - 5 = -81 - 36 - 21 - 5 = -143$ Hence, the value of the given polynomial at x = 3 and x = -3 are 61 are 6 10 (1) — 4 (1) 2 -3 = 10-4-3 = 10-7 = 3 and p(-2) = 10 (-2) - 4 (-2) 2 - 3 = -20-4 × 4-3 = -20-16-3 = -39 Hence, the values of p(0), p(1) and p(-2) = (-2 + 2)(-2 -2) = 0 (-4) = -20-16-3 = -39 Hence, the values of p(0), p(1) and p(-2) = -20-16-3 = -39 Hence, the values of p(0), p(1) and p(0) = -20-16-3 = -39 Hence, the values of p(0), p(1) and p(0) = -20-16-3 = -39 Hence, the values of p(0), p(0) = -20-16-3 = -39 Hence, the values of p(0), p(0) = -2 0Hence, the values of p(0),p(1) and p(-2) are respectively,-4,-3 and 0.Question 10:Verify whether the following are true or false.(i) -3 is a zero of 4 - 5y(iv) 0 and 2 are the zeroes of the polynomial in each of the following,(i) p(x)=x - 2y(iv) 1 is a zero of 4 - 5y(iv) 2 is a zero of 4 - 5y(iv) 2 is a zero of 4 - 5y(iv) 2 is a zero of 4 - 5y(iv) 3 is a zero of 4 - 5y(iv) 4. (ii) g(x) = 3 - 6x(iii) q(x) = 2x - 7 (iv) h(y) = 2ySolution:(i) Given, polynomial is p(x) = x-4For zero of polynomial is p(x) = x-4For zero of polynomial, put p(x) = x-4For zero of polynomial is p(x) = x-4For zero of polynomial is p(x) = x-7 For zero of polynomial is p(x) = x-4For zero of polynomial is p(x) = x-7 For zero of polynomial is p(x) = x-7 (iv) p(x) = x-7 (iv) p(x) = x-7 (iv) p(x) = x-7 For zero of polynomial is p(x) = x-7 For zero of polynomial is p(x) = x-8 (iii) Given, polynomial is p(x) = x-8 (iv) p(x) = x-9 (iv) p(x) = x-1/2. Hence, zero of polynomial is p(x) = x-1/2. zero of polynomial, put q(x) = 2x-7 = 02x = 7 = > x = 7/2Hence, zero of polynomial is (x) = (x-2)2 - (x+2)2. Solution: Given, polynomial is (x) = (x-2)2 - (x+2)2. For zeroes of polynomial, put (x) = (x-2)2 - (x+2)2. Solution: Given, polynomial is (x) = (x-2)2 - (x+2)2. For zeroes of polynomial, put (x) = (x-2)2 - (x+2)2. Solution: Given, polynomial is (x) = (x-2)2 - (x+2)2. 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Solution: Given, polynomial is (x) = (x-2)2 - (x+2)2. = 0(x-2)2-(x+2)2=0(x-2+x+2)(x-2-x-2) = 0 [using identity, a2-b2 = (a-b)(a + b)] = (2x)(-4) = 0Question 13:By actual division, find the remainder when p(x) is divided by g(x)(i) p(x) = x3-(x-2)(x-2) = 0 [using identity, a2-b2 = (a-b)(a + b)] = (2x)(-4) = 0Question 13:By actual division, find the remainder when p(x) is divided by g(x)(i) p(x) = x3-(x-2)(x-2) = 0 $2x^2-4x-1$, g(x)=x+1(ii) $p(x)=x^3-3x^2+4x+5$, g(x)=x-2(iii) $p(x)=x^3-3x^2+4x+5$, g(x)=x-2(iii) $p(x)=x^3-1$ (iv) $p(x)=x^3-1$ (iv) p(then put the value of in p(x) and simplify it.(ii) If p(a) = Q then p(x) is a multiple of g(x) where 'a' is a zero of g (x)). Solution: Question 17: Determine which of the following polynomial has x - 2a factor (i) 3x2 + 6x - 24 (ii) 4x2 + x - 2Solution: Question 18: Show that p-1 is a factor of p10 -1 and also of p11 -1. Solution: Let g (p) = p10 -1 and h(p) = p11 -1. On putting p = 1 in Eq. (i), we get g(1) = 110-1 = 1 -1 = 0 Hence, p-1 is a factor of h(p). Question 19:For what value of m is x3 - 2mx2 + 16 divisible by x + 2? Solution: Let p(x) = x3 - 2mx2 + 16 is a factor of a 5 - 4a2x3 + 2x + 2a + 3, then find the value of a. Solution: Let p(x) = x3 - 2mx2 + 16 divisible by x + 2? Solution: Let p(x) = 0 = 8 - 8m + 16 = 0 = 8 -=a5 -4a2x3 +2x +2a +3Since, x +2a is a factor of p(x), then put p(-2a) = 0 (-2a)5 -4a2 (-2a) +2a +3 = 0 => -32a5 +32a5 -4a +2a +3 = 0 => -32a5 +32a5 -4a +32a5 -4a6 -32a5 -4a7a7 -32a7 -32a5 -4a7a7 -32a7 -3(iv) 3x3 - x2 - 3x + 1Thinking Process(i) Firstly, find the prime factors of constant term in given polynomial.(ii) Substitute these factors in place of x in given polynomial and find the minimum factor which satisfies given polynomial and write it in the form of a linear polynomial and other is a guadratic polynomial in such a way that it becomes the product of two factors, one of them is a linear polynomial and other is a guadratic polynomial.(iv) Further factor of guadratic polynomial by splitting the middle term. Solution: Ouestion 25: Using suitable identity, evaluate the following into two number into two number such that one is a multiple of 10 and use the proper identity. Solution: Ouestion 26: Factorise the followingSolution:Question 27:Factorise the following(i) $9x^2 - 12x + 3$ (ii) $9x^2 - 12x + 4$ (iii) $9x^2 - 12x + 4$ (iii) $9x^2 - 12x + 4$ (ii) $9x^2 - 12x + 4$ (ii) $9x^2 - 12x + 4$ (ii) $9x^2 - 12x + 4$ (iii) $9x^2 - 12x + 4$ (iv) $9x^2$ + 24xzSolution:Question 30:If a + b + c = 9 and ab + bc + ca = 26, find a2 + b2 +c2. Solution:Question 31:Expand the following Solution:Question 32:Factorise (i) 1 + 64x3 (ii) a3 -2√2b3Thinking Process(i) Firstly, adjust the given number either in the 37:Without actually calculating the cubes, find the value of 36xy-36xy = 0Thinking ProcessIn this method firstly check the values of a + b + c = Q, now use the identity a3 + b3 + c3 = 3 abc = (a + b + c)c)(a2 + b2 + c2 - ab - bc - ca)Also, if a + b + c = 0, then a3 + b3 + c3 = 3abcHere, we see that (x-2y) + (2y-3z) + (3z-x) = 0Therefore, (x-2y)3 + (3z-x) =leave the same remainder when divided by z - 3, find the value of a. Solution: Let p1(z) = az3 + 4z2 + 3z - 4 and p2(z) = az3(1/2) are factors of $px^2 + 5x + r$, then show that p = r. Solution: Ouestion 4: Without actual division, prove that $2x^2 - x + 2$ is divisible by $x^2 - 3x + 2$ Thinking Process(i) firstly, determine the factors of guadratic polynomial by splitting middle term. (ii) The two different values of zeroes put in biguadratic polynomial. (iii) In both the case if remainder is zero, then biquadratic polynomial is divisible byquadratic polynomial. Solution: Let p(x) = 2x4 - 5x3 + 2x2 - x + 2 firstly, factorise $x^2 - 3x + 2$ in divisible by $x^2 - 3x + 2$ is divisible by $x^2 - 3x + 2$ in divisible by x^2 (1) = 0 and p(2) = 0Now, p(1) = 2(1)4 - 5(1)3 + 2(1)2 - 1 + 2 = 2 - 5 + 2 - 1 + 2 = 6 - 6 = 0 and p(2) = 2(2)4 - 5(2)3 + 2(2)2 - 2 + 2 = 2x16 - 5x8 + 2x4 + 0 = 32 - 40 + 8 = 40 - 40 = 0Hence, p(x) is divisible by $x^2 - 3x + 2$. Question 5: Simplify (2x - 5y)3 - (2x + 5y)3 - (2x[using identity, (a - b)3 = a3 - b3 - 3ab and (a + b)3 = a3 - b3 - 3ab and (a + b)3 = a3 + b3 + 3ab] = (2x)3 - (5y)3 - 30xy(2x - 5y) - (2x)3 - (5y)3 - 30xy(2x - 5y) = -2x + 2xy + xz - 2yz by (-z + x - 2y). Solution: Question 7: Solution: Question 8: If a + b + c = 5 and ab + bc + ca = 10, then prove that a3 +b3 +c3 - 3abc = -25. Solution: Question 9: Prove that (a +b +c)3 -a3 -b3 - c3 = 3(a +b)(b +c)(c +a). Solution: All Chapter NCERT Exemplar Problems Solutions For Class 9 maths— —All Subject NCERT Exemplar Problems Solutions For Class share ncertexemplar.com to your friends.

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