Dividing polynomials practice worksheet answers key pdf download 2016

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Proof. Let B and C be inverses of A. Then $AB = I_n = BA$ and $AC = I_n = CA$. Then $B(AC) = BI_n = B$ and $(BA)C = I_nC = C$. Hence because $B(AC) = (BA)C$, we deduce that $B = C$.

REMARK 2.5.1 If A has an inverse, it is denoted by A^{-1}. So

$$AA^{-1} = I_n = A^{-1}A.$$

Also if A is non–singular, it follows that A^{-1} is also non–singular and

$$(A^{-1})^{-1} = A.$$

THEOREM 2.5.2 If A and B are non–singular matrices of the same size, then so is AB. Moreover

$$(AB)^{-1} = B^{-1}A^{-1}.$$

Proof.

$$(AB)(B^{-1}A^{-1}) = A(BB^{-1})A^{-1} = AI_nA^{-1} = AA^{-1} = I_n.$$

Similarly

$$(B^{-1}A^{-1})(AB) = I_n.$$

REMARK 2.5.2 The above result generalizes to a product of m non–singular matrices: If $A_1, \ldots, A_m$ are non–singular $n \times n$ matrices, then the product $A_1 \ldots A_m$ is also non–singular. Moreover

$$(A_1 \ldots A_m)^{-1} = A_m^{-1} \ldots A_1^{-1}.$$

(Thus the inverse of the product equals the product of the inverses *in the reverse order*.)

EXAMPLE 2.5.1 If A and B are $n \times n$ matrices satisfying $A^2 = B^2 = (AB)^2 = I_n$, prove that $AB = BA$.

Solution. Assume $A^2 = B^2 = (AB)^2 = I_n$. Then A, B, AB are non–singular and $A^{-1} = A$, $B^{-1} = B$, $(AB)^{-1} = AB$.

But $(AB)^{-1} = B^{-1}A^{-1}$ and hence $AB = BA$.

EXAMPLE 2.5.2 $A = \begin{bmatrix} 1 & 2 \\ 4 & 8 \end{bmatrix}$ is singular. For suppose $B = \begin{bmatrix} a & b \\ c & d \end{bmatrix}$ is an inverse of A. Then the equation $AB = I_2$ gives

$$\begin{bmatrix} 1 & 2 \\ 4 & 8 \end{bmatrix}\begin{bmatrix} a & b \\ c & d \end{bmatrix} = \begin{bmatrix} 1 & 0 \\ 0 & 1 \end{bmatrix}$$

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Adding and Subtracting Polynomials

Simplify each expression.

1) $(q^2 - 8q^5 - 7) + (3q^2 + 4 - 5q^5) + (9q^2 - 6q - 2)$

6) $(7p^2 - 4p^4 + 3p) - (5p^2 + 6p^3) + (9p^3 - 8p^4 + 2p^3)$

2) $(6c - 4c^4 - 3) - (9c + 5c^4 - 8c^3)$

7) $(6y^5 - 2) - (9y^5 + 5 + 3y^2)$

3) $(8q^4 - 3q^2 + 2q) - (4q^2 - 5q) + (7q - 9q^2 + 6q^4)$

8) $(7z^2 + 5z^3 - 4z^4) - (8z^4 + 6) - (9z^3 + 3z^2)$

4) $(6d^4 - 4) + (9 + 8d^3 - 5d^4)$

9) $(2p - 8p^4) - (4p + 6p^4 - 5)$

5) $(3z^3 + 5) + (4z^3 + 8 - 9z^2) + (6z^2 + 7z - 2)$

10) $(6x^4 - 5x^3) - (2x^3 - 4x + 9x^4)$

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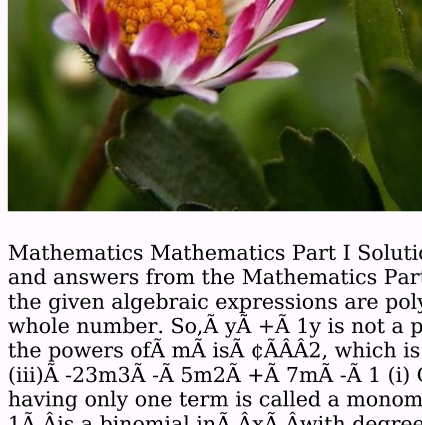
$(x+3)(x+5)$



Mathematics Mathematics Part I Solutions Solutions for Class 9 Math Chapter 3 Polynomials are provided here with simple step-by-step explanations. These solutions for Polynomials are extremely popular among Class 9 students for Math Polynomials Solutions come handy for quickly completing your homework and preparing for exams. All questions and answers from the Mathematics Part I Solutions Book of Class 9 Math Chapter 3 are provided here for you for free. You will also love the ad-free experience on Meritnation¢ÃÂÂs Mathematics Part I Solutions Solutions. All Mathematics Part I Solutions Solutions for class Class 9 Math are prepared by experts and are 100% accurate. State whether the given algebraic expressions are polynomials? Justify. (i)Ã yÃ +Ã 1yÃ (ii)Ã 2Ã -Ã 5Ã xÃ (iii)Ã x2Ã +Ã 7xÃ +Ã 9Ã (iv)Ã 2m-2Ã +Ã 7mÃ -Ã 5Ã (v) 10 In an algebraic expression, if the powers of the variables are whole numbers then the algebraic expression is a polynomial. (i)Ã y+1y=y+y-1 Here, one of the powers ofÃ yÃ isÃ ¢ÃÂÂ1, which is not a whole number. So,Ã yÃ +Ã 1y is not a polynomial. (ii)Ã 2Ã -Ã 5Ã x=2-5x12 Here, the power ofÃ x isÃ 12, which is not a whole number. So,Ã 2Ã -Ã 5Ã x is not a polynomial. (iii) x2Ã +Ã 7xÃ +Ã 9 Here, the powers of the variableÃ x are 2, 1 and 0, which are whole numbers.Ã So,Ã x2Ã +Ã 7xÃ +Ã 9Ã is a polynomial. (iv) 2m-2Ã +Ã 7mÃ -Ã 5 Here, one of the powers ofÃ mÃ isÃ ¢ÃÂÂ2, which is not a whole number. So,Ã 2m-2Ã +Ã 7mÃ -Ã 5Ã is not a polynomial. (v) 10 = 10 ÃÂ 1 =Ã 10x0 Here, the power of xÃ is 0, which is a whole numbers.Ã So, 10Ã is a polynomial (or constant polynomial). Page No 39: Write the coefficient of m3 in each of the given polynomial. (i) m3Ã (ii)Ã -3Ã 2Ã +Ã mÃ -Ã 3m3Ã (iii)Ã -23m3Ã -Ã 5m2Ã +Ã 7mÃ -Ã 1 (i) Coefficient ofÃ m3Ã = 1 (ii) Ã -3Ã 2Ã +Ã mÃ -Ã 3m3 Coefficient ofÃ m3Ã = -3 (iii) -23m3Ã -Ã 5m2Ã +Ã 7mÃ -Ã 1 Coefficient ofÃ m3Ã =Ã -23 Page No 39: Write the polynomial in x using the given information. Monomial with degree 7 (ii) Binomial with degree 35 (iii) Trinomial with degree 8 (i)Ã ÂA polynomial having only one term is called a monomial. Also, the highest power of the variable in a polynomial is called the degree of the polynomial. 3x7Ã Âis a monomial inÃ ÂxÃ Âwith degree 7. (ii)Ã ÂA polynomial having only two terms is called a binomial. Also, the highest power of the variable in a polynomial is called the degree of the polynomial. 2x35 +Ã Â 1Ã Âis a binomial inÃ ÂxÃ Âwith degree 35. (iii)Ã ÂA polynomial having only three terms is called a trinomial. Also, the highest power of the variable in a polynomial is called the degree of the polynomial. 5x8Ã Â+Ã Â6x4 +Ã Â7xÃ Âis a trinomial inÃ ÂxÃ Âwith degree 8. Page No 40: Write the degree of the given polynomials. (i) 5Ã Â Ã Â (ii)xÃ°ÂÃ Â Ã Â Ã Â(iii) x2Ã Â Ã Â Ã Â (iv)Ã Â Ã Â2Ã Âm10Ã Â-Ã Â7Ã Â Ã Â Ã Â Ã Â(v)Ã ÂÃ Â2pÃ Â-Ã Â7Ã Â Ã ÂÃ ÂÃ Â(vi)Ã Â7yÃ Â-Ã Ây3Ã Â+Ã Ây5Ã Â Ã Â Ã Â(vii)Ã ÂxyzÃ Â+xyÃ Â-Ã ÂzÃ Â Ã Â Ã Â(viii)Ã Âm3n7Ã Â-Ã Â3m5nÃ Â+Ã Âmn The highest power of the variable in a polynomial of one variable is called the degreee of the polynomial.Ã ÂAlso, the highest sum of the powers of the variables in each term of the polynomial in more than one variable is the degree of the polynomial. (i)Ã Â 5=5ÃÂ1=5x0Ã Â The degree of the polynomialÃ Â5 is 0. (ii)Ã Â The degree of the polynomialÃ Âx0 is 0. (iii)Ã Â The degree of the polynomialÃ Âx2Ã Âis 2. (iv)Ã Â The degree of the polynomialÃ Â2m10-7 is 10. (v)Ã Â The degree of the polynomialÃ Â2p-7Ã Âis 1. (vi)Ã Â The degree of the polynomialÃ Â7y-y3+y5Ã Âis 5. (vii) The sum of the powers of the variables in the polynomialÃ Âxyz+xy-zÃ Âare 1 + 1 + 1 = 3 and 1 + 1 = 2. The degree of the polynomial xyz+xy-zÃ Âis 3. (viii) The sum of the powers of the variables in the polynomialÃ Âm3n7-3m5n+mnÃ Âare 3 + 7 = 10, 5 + 1 = 6 and 1 + 1 = 2. The degree of the polynomialÃ Âm3n7-3m5n+mnÃ Âis 10. Page No 40: Classify the following polynomials as linear, quadratic and cubic polynomial. Ã Â (i) 2x2 + 3 x + 1 (ii) 5p 2yã ¢ -12 (IV) M3ã ¢+ ã ¢ 7m2'+ ã ¢ 52mã ¢ 7 (V) A2 (VI) 3R3 (i) ã ¢ the degree of the polynomial 2x2ã ¢+ 3xã ¢+ 1 is 2. therefore, The polynomial 2x2ã ¢+ 3xã ¢+ 3xã ¢+ 3xã ¢+ 3xã ¢+ 1 is a square polynomial. (ii) The degree of the 5P polynomial is 1. So, the polynomial 5pã ¢ is a linear polynomial. (iii) The degree of the 2Y-12 polynomial is 1. So, the 2Y-12's polynomial is a linear polynomial. (IV) The degree of the M3+7M2+52m-7 polynomial is 3. So, the M3+7M2+52m-7 polynomial is a cubic polynomial. (V) The degree of polynomial A2 is 2. So, the A2 polynomial is a square polynomial. (VI) The rank of 3R3 polynomial is 3. So, the 3R3 polynomial is a cubic polynomial. Page n. 40: Write the following polynomes in standard form. (i) ã ¢ m3ã ¢+ã ¢ 3ã ¢+è ã ¢ (ii) ã ¢ -7yã ¢+ã ¢ y5ã ¢ ¢ ã ã 3y3ã ¢ -12 ã ¢ \ ã ¢ 2y4 ¢ -y2 a polynomial written in Descendant or ascending powers is called the standard standard of standard shapes of standard form standard of standard shape of standard shapes of standard form standard of standard shape of standard form standard of standard form standard of standard shape of a standard shape of a standard shape of a standard form Standard standard shape of standard shape of standard shapes of standard shapes standard form standard of standard shape of standard shapes of standard shape of standard shapes of standard standard formal form of standard formal shape of standard standard formal shape of standard standard formal shape of standard shapes Standard standard shape of standard shapes of standard shape of standard shapes standard shape of standard shape of a standard shape of a standard shape of a standard shape of a standard shape of a standard shape of a standard shape of a standard shape of a standard shape of a standard shape of a standard shape of a standard shape of the form s Standard standard shape of standard shapes of standard shape of standard shapes of standard shape standard shape of a setting the polynomial. (i) The polynomial given is m3ã ¢ + 3 + 5m. The standard form of the polynomial is 3+5m+ã ¢ m3 oã ¢ m3ã ¢+5m+3. (ii) the polynomial given is li li ,idniuq .)1âË¢Ã ,0 ,0 ,0 ,5(¨Ã oimonilop led etneiciffeoc led amrof aL -)ii(.3 + x2 + ¢Ã2x ¨Ã oimonilop led ecidni amrof al ,otnatreP .)3 ,2 ,1(¨Ã oimonilop led etneiciffeoc led amrof aL ¢Ã)i( )2 ,2¹â ¬â ¢Ã- ,2 ,2-( )iii( )1- ¢Ã ,0 ,0 ,0 ,5( )ii( )3 ,2 ,1( )i(.ecidni id amrof ni imonilop i ivircs :04 .n anigaP .32- ¨Ã" 32- oimonilop led etneiciffeoc led amrof aL)vi(.)7 ,0 ¢Ã ,3âË¢Ã ,0 ,2(¨Ã oimonilop led etneiciffeoc led amrof aL 7+M0+2M3-3M0+4M2 = 7+2M3-4M2 ¢Ã)iii(.)0 ,5(¨Ã oimonilop led etneiciffeoc led amrof aL 0 + y5 = y5 ¢Ã)ii(.)2âË¢Ã ,0 ,0 ,1(¨Ã oimonilop led amrof al etneiciffeoc led etneiciffeoc lI 2-x0+2x0+3x = 2-3x ¢Ã)i(32- ¢Ã ¢Ã ¢Ã)vi(¢Ã7 ¢Ã+¢Ã2M3-¢Ã4M2 ¢Ã)iii(¢Ãy5 ¢Ã)ii(¢Ã2-¢Ã3x ¢Ã)i(.etneiciffeoc id amrof ni imonilop itneuges i erevircs :04 .n anigaP .5Y+4Y2+3Y3+2Y-Y7-21- ¢ÃRO ¢Ã21-1-Y7-2Y-3Y3+4Y2+5Y ¨Ã oimonilop led dradnats amrof aL 3x2 + 3x5 + 3x7 + 3x2)iii(6 - 6 - 3 - 3 - 3 - 2 - 3 - 2 - 3 - .imonilop i eregnuiggA :34 .n anigaP .n + m01 ¨Ã erfic eud id oremun li atneserppar ehc oimonilop li ,¬ÃsoC n + m01 = n + 01 Ã m = Ãtinu otsop la tigiD + 01 Ã iceid id ogoul la tigiD = erfic eud id oremuN â n = ecalp tinu eht ta tigiD m = ecalp snet eht ta tigiD)iii(.atarap al rep yx itneduts ilg ittut ni onos ic ,¬ÃsoC yx = xy = x Ã y = ehgir id oremuN Ã agir ingo ni itneduts id oremuN = atarap allen itneduts id elatot oremuN â x = ehgir id oremuN y = agir ingo ni itneduts id oremuN)ii(.xb + nu ¨Ã inna x opod irebla id oremun li ,¬ÃsoC xb + a = x Ã onna ingo irebla id oremun led otnemua + oiggalliv len irebla id elaizini oremun = inna x opod oiggalliv len irebla id oremuN ¸Å b = onna ingo irebla id oremun led otnemua nu = oiggalliv len irebla id elaizini oremuN)i(.erfic eud a oremun li atneserppar ehc oimonilop li ivircS .n e m etnemavittepsir onos erfic eud id oremun nu id Ãtinu e eniced eL)iii(?ottut ni atarap al rep onos ic itneduts itnauq ,arollA .itamrof onos alif elat x e alif ingo ni itneduts y onos ic atarap al reP)ii(?inna âxâ opod onnaras ic irebla itnauq ,âbâ ad onna ingo atnemua irebla id oremun li eS .taL oiggalliv len irebla 'a' onos iC)i(.atsopsir al erevircs per etad erettel el asU :34 .n anigaP .elotacs ellen itiarpporpa imonilop i erevircS :04 .n anigaP .2 + x2â 2x2 + 3x2â ¨Ã oimonilop led ecidni amrof al ,otnatreP .)2 ,2â ,2 ,2â(¨Ã oimonilop led etneiciffeoc id amrof aL)iii(.1 â 4x5 o 1 â x0 + 2x0 + 3x0 + 4x5 ¨Ã oimonilop led amrof ardauq amart alled otal(Ë¢Ã Ë¢Ã eralognatter airottaf alled azzeipma - £Ã eralognatter airottaf alled ¢Ã ¢Ã ¢Ã ¢Ã ¢Ã ¢Ã ¢Ã ¢Ã ¢Ã ¢Ã = atardauq amart alled airottaf alled airottaf alled elatot aera = airottaf aL ardauq amart alled otal m)2b + ¢Ã2a(¢Ã = eralognatter airottaf alled azzeipma m)2b3 + 2a2(= eralognatter airottaf alled thgneL ?airottaf alled etnenamir etrap alled aera'l ¨Ã lauQ .ortem)¢Ã Ã-¢Ã2a(are amart alled otal lI .asac anu eriurtsoc rep airottaf alled otardauq otnemazzeppa nu otasu ah erotlocirga'L .)2B ¢Ã+¢Ã ¢Ã2A(azzeipma id ortem e ¢Ã 2b3 ¢Ã 2b3 ¢Ã ¢Ã ¢Ã ¢Ã ¢Ã ¢Ã2a2 azzehgnul noc eralognatter airottaf anu ¨Ã'C .eracifilpmes e acirbegla enoisserpse id amrof ottos inoizamrofni el eratonna :34 .n anigaP 2+x8+8+ x6+2x9+3x5-£Ãx-2x = 2+2x2+3x3-4x4+5x5´ÂË¢Ã onroiggos+etneizouq-£Ã ¢Ãrosivid = odnedivid ,agnul enoisivid id odotem id ozzilitU 2+x0+¢Ã2x2+3x3-4x4+5x5 = 2+ ¢Ã2x2+3x3-4x4+5x5)ii(0+61+x4+2x-£Ã4-x = 46-3x´ÂË¢Ã etnenamir+etneizouq-£Ã ¢Ãrosivid = odnedivid ,agnul enoisivid id odotem li odnasu 46-x0+ ;46 ¢Ã3x ¢Ã)i(." otser + etneizouQ â£Ã rosiviD = dnedividË ¬â ¢Ã amrof allen atsopsir al ivircs e oimonilop odnoces rep oimonilop omirp li idiviD :34 .n anigaP y3+2y7+4y4- = y3+2y+2y6+3y2-3y2+4y4- = y3+3y2-2Y ++2y6+4y4-3y2 = y3+3y2-2y1+y3+3y2-2yy2 = y3+3y2-2y-- £Ã1+y2)iii(2-2x2-3x-5x2+7x2+8x = 2+2x2+3x1-2 +2x2+3x5x = 2+2x2+3x-£Ã1-5x)ii(x2-2x4-3x2 = 1-£Ãx2+x2--£Ãx2+2x-£Ãx2 = 1-x2- ¢Ã2xx2)i(y3 ¢Ã+¢Ã3y2 Ã 2â ¢Ã ¢Ã ¢Ã ;¢Ã1 ¢Ã+¢Ãy2 ¢Ã)iii(Ã ¢Ã ¢Ã ¢Ã2 ¢Ã+¢Ã2x2 ¢Ã+¢Ã ¢Ã ¢Ã ¢Ã ;¢Ã1 Ã ¢Ã ¢Ã ¢Ã ¢Ã)ii(¢Ã ¢Ãx2 ¢Ãâ ¢Ã ¢Ã ¢Ã ¢Ã ¢Ã ¢Ã ¢Ã ¢Ã ;¢Ãx2 ¢Ã ¢Ã ¢Ã)i(.itad imonilop i eracilpitlom :34 .n anigaP ba7-b2a+2ba01 = ba3-ba4-b2a2-b2a3+2ba8+2ba2 = b2a2-2ba8+ba3-ba4-b2a3+2ba2 = b2a2+2ba8- ba3-ba4-b2a3+2ba2)ii(x01+2x6- = 3-3+x91+x9-2x7-2x = 2x7-3-x91+3+x9-2x = 2x7+3+x91- ¢Ã3+x9- 2x)I(b2a2 Ã+¢Ã2ba8 Ã ¢Ã ¢Ã ¢Ã ¢Ã ¢Ã ¢Ã ¢Ã ;¢Ãba4-¢Ãb2a3 ¢Ã+¢Ã2ba2 ¢Ã)ii(¢Ã ¢Ã ¢Ã ¢Ã2x7 ¢Ã+¢Ã3 ¢Ã+¢Ãx91- ¢Ã ¢Ã ;¢Ã3 ¢Ã+¢Ãx9-¢Ã2x Ã ¢Ã ¢Ã ¢Ã ¢Ã ¢Ã ¢Ã ¢Ã ¢Ã ¢Ã ¢Ã ¢Ã ¢Ã)i(.omirp lad oimonilop odnoces li errarttos :34 .n anigaP = 2a2(a2 + b2) 3b2(a2 + b2) − (a4 + b4 − 2a2b2) = 2a4 + 2a2b2 + 3a2b4 − a4 − b4 2a2b2 = 2a4 − a4 + 2a2b2 + 3a2b22 + 3b4 − b4 Page 46: Divide each of the following polynomials by synthetic split method and also by linear division method. Write the quotient and the rest. (ii) 2m2 - 3m + 10 ÷ m - 5 (ii) x4 + 2x3 + 3x2 + 5 ÷ x + 2 (iii) y3 - 216 ÷ y - 6 (iv) 2x4 + 3x3 + 4x2 ÷ x 3 (v) x4 - 3x2 - 8 ÷ + 4 (vi) Dividend = x4+2x3+3x2+4x+5 Divider = x+22 The coefficient form of the quotient is (1, 0, 3, −2). Universo Quotient = x3 + 3x − 2 and Remainder = 9 Linear method: x4+2x3+3x2+5=x3x+2+3x+2+3x+4x+4x+4x+3x+3x+2-2x+3x+3x+2+3x+2+3x+2+3x+5x+3=X+3= The coefficient form of the quotient is (1, 6, 36). ♪ The coefficient form of the quotient is (2, −3, 7, −17). Quotient = 2x3 − 3x2 + 7x − 17 and Remainder = 51 Linear method: ¢Ã ¢Ã ¢Ã ¢Ã ¢Ã ¢Ã ¢Ã ¢Ã ¢Ã ¢Ã ¢Ã ¢Ã2x2- ¢Ã ¢Ã ¢Ã = ¢Ãxp ¢Ã)iii(¢Ã ¢Ã ¢Ã5 ¢Ã+¢Ãy2- ¢Ã2y ¢Ã = ¢Ãyp ¢Ã)ii(¢Ã ¢Ã3x ¢Ã = ¢Ãxp ¢Ã)i(.2-p ¢Ã e ¢Ã 0p ¢Ã ,1p avort , laimonylop gniwollof eht fo hcae roF :35 oN egaP 7. Ãsi Ã0 Ã= Ãx Ãrof laimonylop fo eulav eht ,suhT 7=7+0-0=7+30ÃÂ2-0ÃÂ2=0p)iii(.7 Ãsi 1 ' Ë¢Ã = ¢Ãx rep oimonilop led erolav li ,otnatreP 7 = 7+2+2- = 7+1-©Ã2- = 7+31--£Ã2-1--£Ã2 = 1-p ¢Ã)ii(.14âË¢Ã ¨Ã 3 = x rep oimonilop led erolav li ,otnatreP 14- = 7+45-6 = 7+72-£Ã2-6 = 7+33-£Ã2-3-£Ã2 = 3p ¢Ã)i(.7+3x2-x2 = xP Ã ¢Ã ¢Ã 0 = x)iii(¢Ã ¢Ã1- ¢Ã = ¢Ãx ¢Ã)ii(¢Ã ¢Ã3 ¢Ã = ¢Ã ¢Ã ¢Ã ¢Ã)i(.¢Ã rep itad irolav i odnasu ¢Ã7 ¢Ã+¢Ã3x2 Ã- ¢Ãx2 Ã ¢Ãx2 Ã ¢Ãx2" elaimonilop led erolav li avorT :35 .n anigaP 11- = 7+01-42-61 = 7+2â£Ã5-22-£Ã6-32-£Ã2 = 2p´ÂË¢Ã 7+y5-2y6-3y2 = yp .2p avort idniuq 7 Ã 7 ¢Ã+¢Ãy5-¢Ã2y6-¢Ã3y2 ¢Ã = ¢Ãyp ¢Ãfi :84 .n anigaP 02+2a4 = a-p+ap´ÂË¢Ã 02+2A4 = 01+01+A+A-2A2+2A2+3A-3A = 01 +A+2A2+3A-+01+A-2A2+3A = A-P+aP omainetto ,)2(e)1(atnuiggA)2(¦â¢Ã ¢Ã ¢Ã 01+a+2a2+3a- = a-p' ¡â ¢Ã 01+a-2a-2+3a- = a-p ,ertlonI)1(..... ¢Ã ¢Ã ¢Ã01+a-2a2+3a = ap´ÂË¢Ã 01+m-2m2+3m = MP ?¢Ã = ¢Ãa-p ¢Ã+¢Ã arolla 01 avit ¢Ã Ã Ã+¢Ã Ã Ã+¢Ã Ã Ã+¢Ã Ã Ã+¢Ã ¢Ã+¢Ã ¢Ã+¢Ã ¢Ã+¢Ã ¢Ã+¢Ã ¢Ã+¢Ã ¢Ã+¢Ã ¢Ã+¢Ã ¢Ã+¢Ã ¢Ã+¢Ã ¢Ã+¢Ã ¢Ã+¢Ã ¢Ã+¢Ã ¢Ã+¢Ã ¢Ã+¢Ã ¢Ã+¢Ã ¢Ã+¢Ã Ã+¢Ã Ã+¢Ã Ã+¢Ã ¢Ã+¢ÃM-¢Ã2M2 ¢Ã+¢Ã ¢Ã = ¢Ã fi :84 .n anigap 1 = 1+81-81 = 1+23â£Ã23-223 = 23p´ÂË¢Ã 1+y23-2y = yp .23 ¢Ã ¢Ã avort idniuq Ã ¢Ã ¢Ã ¢Ã ¢Ã ¢Ã ¢Ã ¢Ã ¢Ã ¢Ã ¢Ã ¢Ã ¢Ã ¢Ã ¢Ã ¢Ã ¢Ã ¢Ã+¢Ãy23 ¢Ãâ ¢Ã ¢Ã ¢Ã ¢Ã es :84 .n anigaP .5 ¨Ã oimonilop led erolav li 0 = x rep ,idniuQ 5 = 5+0-0 = 5+0-- £Ã5-20 = 0p´ÂË¢Ã .5+x5-2x = xp ¢ÃteL .¢Ã5 Ã +¢Ãx5-¢Ã2x oimonilop led erolav li avorT 0 = ¢Ã rof :84 .n anigaP 2+3+y2-2y-- £Ã1-y = 1-3+1-y3+1-yy2-1-y2y = 1-y5 +y2-1-y2-1-y2y = 1-y5+2y3-2y+1-y2y = 1-y5+2y3-3y :eraenil odoteM 2 = etnenamir e ¢Ã3+¢Ãy2â Ë¢Ã ¢Ã ¢Ã = etneizouq ´ÂË¢Ã .)3 ,2âË¢Ã ,1(¨Ã etneizouq led etneiciffeoc led amrof aL 1 = 1âË¢Ã a etnorf id 1-Y ¢Ã = rosiviD 1-Y5+2Y3-3Y ¢Ã = odnedivid :acitetnis enoisiviD)iv(002+ . 2x3-2x61+4+x2x4-4+x3x = 8-2x3-3x4-4+x3x = 8-2x3-4x :eraenil odoteM 002 = etnenamir e 25 âË¢Ã ¢Ãx31+¢Ã2x4â Ë¢Ã ¢Ã3x = etneizouq ´ÂË¢Ã .)25âË¢Ã ,31 ,4' ; avit avit ¢Ã = ¢Ã3âË¢Ã a etnorf id 3 ¢ÃâË¢Ã ¢Ãm ¢Ã = rosiviD 5+m72-2m81+3m45 ¢Ã = odnedivid :acitetnis enoisivid reP)iii(a-2a-3a2 = a-2a+2a2-3a2 = a-a-£Ãa+2a-£Ã2-3a-£Ã2 ¢Ã =)a(p ¢Ã = etnenamir ,ameroet led otser li rep a ¢ÃâË¢Ã ¢Ã ¢Ã = rosiviD .a-xa+2x2-3x2 =xp ÃteL :meroeht redniamer yB a ÃÂÂ¢Ã Ã2a ÃÂÂ¢Ã ÃÂÂ¢Ã3a2 = redniameR Ãa ÃÂÂ¢Ã ÃÂÂ¢Ã2a2 Ã+ x)2 ÂÂ¢Ã Ãa2(+ Ã2x2 = tneitouQ Ã´ÂÂ¢Ã .)a 'Ë¢Ã ¬â ¢Ã 2a2 ,2â Ë¢Ã ¢Ãa2 ,2(¨Ã etneizouq led etneiciffeoc led amrof aL Ã ¢Ã ¢Ã ¢Ã ¢Ã ¢Ã ¢Ã ¢Ã ¢Ã = aâË¢Ã id otsoppo nu' Ë¢Ã ¢Ãx ¢Ã = rosivid a-xa+2x2- 3x2 ¢Ã = odnedivid :acitetnis enoisivid rep)ii(91 = 9+7+1 = 9+1-£Ã7-21- ¢Ã =)1âË¢Ã(p ¢Ã = otser ,otser led ameroet rep 1+¢Ãx ¢Ã = rosiviD .9+x7-2x = XP :otser led ameroet rep 71 = etnenamir 8â Ë¢Ã ¢Ãx ¢Ã = etneizouq ´ÂË¢Ã .)8âË¢Ã ,1(¨Ã etneizouq led etneiciffeoc amrof al 1âË¢Ã Ã = 1 a etnorf id 1+x ¢Ã = rosiviD 9+x7-2x ¢Ã = odnedivid :acitetnis enoisivid rep)i( )¢Ã3 ¢Ã-¢Ãm ¢Ã(¢Ã ;¢Ã5 ¢Ã+¢Ãm72- ¢Ã2M81 Ã+ Ã3M45 Ã ¢Ã ¢Ã3M45 Ã ¢Ã ¢Ã3M45 Ã ¢Ã ¢Ã3M45 Ã ¢Ã ¢Ã3M45 Ã ¢Ã ¢Ã3M45 Ã ¢Ã ¢Ã3M45 Ã ¢Ã ¢Ã3M45 Ã ¢Ã ¢Ã3M45 Ã ¢Ã ¢Ã3M45 Ã ¢Ã ¢Ã3M45 Ã ¢Ã ¢Ã3M45 Ã ¢Ã ¢Ã3M45 Ã ¢Ã3m45 ¢Ã ¢Ã ¢Ã ¢Ã ¢Ã ¢Ã ¢Ã ¢Ã ¢Ã ¢Ã ¢Ã ¢Ã ¢Ã ¢Ã ¢Ã ¢Ã ¢Ã ¢Ã ¢Ã)a-¢Ãx Ã(¢Ã ;¢Ã a-¢Ãxa+¢Ã2x2-¢Ã3x2 ¢Ã)ii(¢Ã ¢Ã ¢Ã)1 ¢Ã+¢Ãx(¢Ã ;¢Ã9+¢Ãx7-¢Ã2x ¢Ã)i(.erottaf led ameroet li odnasu otser li avort e oimonilop odnoces li rep oimonilop omirp li idiviD :35 .n anigaP .2 ¨Ã m ¢Ã id erolav li ,otnatreP 2 = 5-7 = mâ ¡â ¢Ã7 = 3+2+m â¡â ¢Ã7 = 3+1-£Ã2-21--£Ãmâ ¡â ¢Ã7 = 1-p´ÂË¢Ã .3+x2-2xm = xp ¢ÃteL .m avort idniuq Ã ¢Ã ¢Ã ¢Ã7 Ã ¢Ã ¢Ã ¢Ã ¢Ã ¢Ã ¢Ã 3 ¢Ã+¢Ãx2- ¢Ã2xm ¢Ã oimonilop li rep :35 .n anigaP .0 ¨Ã A id erolav li ,otnatreP 0 = 21-21 = A' ¡â ¢Ã21 = a+21â ¡â ¢Ã21 = a+4+8â ¡â ¢Ã21 = a+2â£Ã2+32´ÂË¢Ã .21 =)2(p ¢Ã ,2 = m ¢Ã rep a+m2+3m = MP ¢ÃteL .a id erolav li avort idniuq ,¢Ã2 ¢Ã = ¢ÃM rep 21 ¨Ã ¢Ã a ¢Ã+¢Ãm2 ¢Ã+¢Ã3m ¢Ãoimonilop led erolav li es :35 .n anigaP 01 = 2+8-61 = 2+4â£Ã2-61 = 2--22--£Ã2-42- = 2-p0 = 0-0-0 = 0-20 â£Ã2-40 = 0p2- = 1-2-1 = 1-21-- £Ã2-41 = 1p´ÂË¢Ãx-2x2-4x = xp)iii(31 = 5+4+4 = 5+2--£Ã2- 22- = 2-p5 = 5+0-0 = 5+0-- £Ã2-20 = 0p4 = 5+2-1 = 5+1-£Ã2-21 = 1p´ÂË¢Ã5+y2-2y = yp)ii(3 The form of the quotient coefficient is (54, 180, 513). Ã ¢ Ö † ã ,quotient = 54x2ã ¢+ 180xã ¢+ 513 Rest = 1544 per theorem of the rest: letã ¢ PM = 54m3+ 18m2-27m+ 5. Divisor = ã ¢ ã ¢ ë † ™ ã ¢ 3 for 3 for The rest of the theorem, remain = ã ¢ p (3) = ã ¢ 54ã £ -33+18ã £ -32-27n £ -3+5 = 54'-27+18ã -9-27 worlds â € 3+ 5 = 1458+162-81+5 = 1544 page n. 53: 53: erottaf led ameroet lad ,otnatreP 0 = 1 â 1 = 1 â 12)1(=)1(p ,arO 1 â m = rosiviD .1 â 22m =)m(q e 1 â 12m =)m(p teL .1 - 22m e 1 - 12m id erottaf nu ¨Ã 1- m ehc erartsoM :35 .n anigaP .03 ¨Ã)1 + x(rep osivid ¨Ã)13 + 13x(odnauq otser li ,¬ÃsoC 03 = 13 + 1â = 13 + 13)1â(=)1â(p = redniameR omaibba ,etnenamir ameroet li reP 1 + x = rosiviD .13 + 13x =)x(p teL .otser li eravort idniuq)1 + x(rep osivid ¨Ã)13 + 13x (eS :35 .n anigaP .54-2x-3x2=xp oimonilop id erottaf nu ¨Ã 3-x=xq erottaf led ameroet li rep ,idniuQ 0=45-45=54-9-72Ã2=54-23-33Ã2=pé 3-x=xq = rosiviD 54-2x-3x2=xp)iii(meroeht erottaf lad ¬Ãsoc ,0)1(p id atsiv id otnup laD 2-=1-1-1=1-21-31=1potnemiresni 1-x=xq = rosiviD 1-x-2x-3x=xp)i(3 - x = xq , 54- 2x - 3x2 = xp)ii(1 - x = xq , 1 - x - 2x - 3x = xp)i(.onem o) x(p erottaf nu ¨Ã) x (q es eranimreted ,ipmese itneuges ien irottaf ied ameroet li odnazzilitU :35 .n anigaP .2 ¨Ã m id erolav li ,¬ÃsoC 2=mâ 8=m4â 0=m4-8â 0=02-02+m4-8â 0=02-2Ã01+22Ãm-32â 0=2

osrevinU .02-x01+2xm-3x=xp id erottaf nu ¨Ã)2 â x(ehc otad Ã .02-x01+2xm-3x=xp eraicsaL .m id erolav li eravort arolla 02 - x01 + 2xm - 3x id erottaf nu ¨Ã) 2 - x (eS :35 oN egaP .3 â x2 + 2x id erottaf nu ¨Ã)3 + x(,erottaf led amereot rep ,idniuQ 0=3-6-9=3-Ã2+23-=3-pÌ 3 + x = rosiviD .3 â x2 + 2x =)x(p teL .onem o 3 â x2 + 2 x id erottaf li ¨Ã
3 + x es eranimreted rep erottaf led ameroet li erazzilitU :35 .n anigaP .29 ¨Ã m id erolav li ,¬ÃsoC 29=24+05=mâ05=m+24-â05=m+02-02-8-â05=m+41-4Ã5-8-â05=m+2-Ã7+22-Ã32-Ì 05 =)2â(p = redniameR ,etenamir ameroet li reP .05 ¨Ã 2â = y odnauq oimonilop led erolav li ehc acifingis ²ÃiC .05 ¨Ã otser li ,)2 + y(rep osivid ¨Ã oimonilop li
odnauQ .m+y7+2y5-3y=yip eraicsaL .m id erolav li eravort idniuq 05 ¨Ã otser li e 2 + y ad osivid ¨Ã m + y7 + 2y5 - 3y oimonilop li (42 "¬â ¢Ã)52 - x5(" ¬â ¢Ã 2)5 "¬â ¢Ã x( )ii(21 +)x" ¬â ¢Ã 2x(8 "¬â ¢Ã 2)x" ¬â ¢Ã 2x( )i(.imonilop itneuges i erazzilitcaF :55 .n anigaP 1-x214-X = 4-x1-4-xx21 = 4+x-x2-2x21 = 4+x3-2x21)iv(1+x33+x =
3+x1+3+xx3 = 3+x+x3+2x3 = 3+x4+2x3)v(1+y31-y = 1-y1+1-yy3 = 1-y+y3-2y3 = 1-y2- . m-m6+2m2 = 3-m5+2m2)ii(1-x21+x = 1+x1-1+xx2 = 1-x-x2+2x2 = 1-x+2x2)i(4+x3-2x21) IV(3 + x4 + 2x3)v(1 â¬â ¢Ã y2â ¬â ¢Ã 2y3)vi(77 + x16 + 2x21)iii(3 â¬â ¢Ã m5 + 2m2)ii(1â ¬â ¢Ã x + 2x2)i(.otiuges di itacidni imonilop ied irottaf i avorT
:45 .n egaP 08 = 5+57-051 = 5+3â£Ã52-57â£Ã2 = 5+35â£Ã35 -235-£Ã2 = 35p´ÂË¢Ã 5+x35-2x2 = xp)ii(3- = 51-21 = 7-8-21 = 7-8-+21 = 1p-2-p+2p´ÂË¢Ã 7 = 5+2 = 1-- £Ã5+2 = 1p8- = 01-2 = 2---- £Ã5+2 = 2-p21 = 01+2 = 2-£Ã5+2 = 2p´ÂË¢Ãx5+2 = xp)i(.35p ¢Ã arolla ¢Ã Ã ¢Ã5 ¢Ã+¢Ãx35 ¢Ã2x2 ¢Ã = ¢Ãxp ¢Ã)ii(.avit ¢Ã ¢Ã ¢Ã ¢Ã ¢Ã ¢Ã ¢Ã
¢Ã ¢Ã2-p ¢Ã+¢Ã2p arolla ¢Ã ¢Ãx5 ¢Ã+¢Ã2 ¢Ã = ¢Ãxp ¢Ãfi)i (:35 .n egaP 2 =
m ¢Ã = n ¢Ã´ÂË¢Ã 2 = ¢Ãm ¢Ã' ¡â ¢Ã 01 = m5â ¡â ¢Ã 01 = m ¢Ã+ m4 omaibba ,)1(ni m ¢Ã = n ¢ÃtuP m = ¢Ãn Ã ' ¡â ¢Ã m3 = ¢Ãn3 Ã ¡â ¢Ã m ¢ÃâË¢Ã ¢Ãm4 = n ¢ÃâË¢Ã ¢Ãn4â ¡â ¢Ã m4 + n ¢Ã = m ¢Ã + n4 omaibba ,)2(e)1(ad 2 ... .. Ã Ã Ã Ã Ã Ã Ã Ã Ã Ã Ã Ã Ã Ã Ã Ã Ã01=m4+nÂÂ¢Ã25=m+4nÂÂ¢Ã0=m+21ÂÃ5-221nÂÂ¢Ã0=21p ,oslA 1.. ... Ã Ã Ã Ã Ã
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LetÃ ÂxÃ Â¢ÃÂÂÃ Â5Ã Â=Ã Âz. ¢ÃÂ´Âx-52-5x-5-24=z2-5z-24=z2-8z+3z-24=zz-8+3z-8=z-8z+3 =x-5-8x-5+3Ã ÂÃ ÂÃ ÂÃ ÂÃ ÂÃ ÂÃ ÂÃ ÂÃ ÂÃ ÂÃ ÂÃ ÂÃ ÂÃ ÂÃ ÂReplaceÃ Âz=x-5=x-13x-2 (iii) (x2Ã Â¢ÃÂÂ 6x)2Ã Â¢ÃÂÂ 8(x2Ã Â¢ÃÂÂ 6xÃ Â+ 8) ¢ÃÂÂ 64 =Ã Â(x2Ã Â¢ÃÂÂ 6x)2Ã Â¢ÃÂÂ 8(x2Ã Â¢ÃÂÂ 6x)Ã Â¢ÃÂÂ 64 ¢ÃÂÂ 64 =Ã Â(x2Ã Â¢ÃÂÂ
6x)2Ã Â¢ÃÂÂ 8(x2Ã Â¢ÃÂÂ 6x)Ã Â¢ÃÂÂ 128 LetÃ Âx2Ã Â¢ÃÂÂ 6x =Ã Âz. ¢ÃÂ´Âx2-6x2-8x2-6x-128=z2-8z-128=z2-16z+8z-128=zz-16+8z-16=z-16z+8Ã Â =x2-6x-16x2-6x+8Ã ÂÃ ÂÃ ÂÃ ÂÃ ÂÃ ÂÃ ÂÃ ÂÃ ÂÃ ÂÃ ÂÃ ÂÃ ÂÃ ÂÃ ÂReplaceÃ Âz=x2-6x=x2-8x+2x-16x2-4x-2x+8=xx-8+2x-8xx-4-2x-4=x-8x+2x-4x-2 (iv) (x2Ã Â¢ÃÂÂ 2xÃ Â+ 3)(x2Ã Â¢ÃÂÂ
2xÃ Â+ 5) ¢ÃÂÂ 35 LetÃ Âx2Ã Â¢ÃÂÂ 2x =Ã Âz. ¢ÃÂ´Âx2-2x+3x2-2x+5-35=z+3z+5-35=z2+5z+3z+15-35=z2+8z-20=z2+10z-2z-20 =zz+10-2z+10=z+10z-2=x2-2x+10x2-2x-2Ã ÂÃ ÂÃ ÂÃ ÂÃ ÂÃ ÂÃ ÂÃ ÂÃ ÂÃ ÂÃ ÂÃ ÂÃ ÂReplaceÃ Âz=x2-2x (v) (yÃ Â+ 2)(yÃ Â¢ÃÂÂ 3)(yÃ Â+ 8)(yÃ Â+ 3) + 56 =Ã Â(yÃ Â+ 2)(yÃ Â+ 3)(yÃ Â+ 8)(yÃ Â¢ÃÂÂ 3) +
56 = (y2 + 5y + 6)(y2Ã Â+ 5yÃ Â¢ÃÂÂ 24) + 56 LetÃ Ây2Ã Â+ 5y =Ã Âz. ¢ÃÂ´Ây2+5y+6y2+5y-24+56=z+6z-24+56=z2-18z-144+56=z2-18z-88 =z2-22z+4z-88=zz-22+4z-22=z-22z+4=y2+5y-22y2+5y+4Ã ÂÃ ÂÃ ÂÃ ÂÃ ÂÃ ÂÃ ÂÃ ÂÃ ÂÃ ÂÃ ÂÃ ÂReplaceÃ Âz=y2+5y =y2+5y-22y2+4y+y+4=y2+5y-22yy+4+1y+4=y2+5y-22y+4y+1 (vi) (y2Ã Â+
5y)(y2Ã Â+ 5yÃ Â¢ÃÂÂ 2) ¢ÃÂÂ 24 LetÃ Ây2Ã Â+ 5y =Ã Âz. ¢ÃÂ´Ây2+5yy2+5y-2-24=zz-2-24=z2-2z-24=z2-6z+4z-24=zz-6+4z-6=z-6z+4 =y2+5y-6y2+5y+4Ã ÂÃ ÂÃ ÂÃ ÂÃ ÂÃ ÂÃ ÂÃ ÂÃ ÂÃ ÂÃ ÂÃ ÂReplaceÃ Âz=y2+5y=y2+6y-y-6y2+4y+y+4=yy+6-1y+6yy+4+1y+4=y+6y-1y+4y+1 (vii) (xÃ Â¢ÃÂÂ 3)(xÃ Â¢ÃÂÂ 4)2(xÃ Â¢ÃÂÂ 5)
¢ÃÂÂ 6 =Ã Â(xÃ Â¢ÃÂÂ 3)(xÃ Â¢ÃÂÂ 5)(xÃ Â¢ÃÂÂ 4)2Ã Â¢ÃÂÂ 6 = (x2Ã Â¢ÃÂÂ 8x + 15)(x2Ã Â¢ÃÂÂÃ Â8x + 16)Ã Â¢ÃÂÂ 6 LetÃ Âx2Ã Â¢ÃÂÂÃ Â8x =Ã Âz. ¢ÃÂ´Âx2-8x+15x2-8x+16-6=z+15z+16-6=z2+31z+240-6=z2+31z+234 =z2+18z+13z+234=zz+18+13z+18=z+18z+13=x2-8x+18x2-
8x+13Ã ÂÃ ÂÃ ÂÃ ÂÃ ÂÃ ÂÃ ÂÃ ÂÃ ÂÃ ÂÃ ÂÃ ÂÃ ÂÃ ÂReplaceÃ Âz=x2-8x No 55: Write the correct alternative answer for each of the following questions. Â (i) Which of the following is a polynomial? (A) â
â What is the degree of polynomial 7? (A) 12 â â
â â
â What is the degree of polynomial 0? (A) 0 (b) Â 1â (c) â What is the degree of polynomial 2x2 + 5x3 + 7? (A) â
â â
â â
â â â What is the form of the coefficient of â â â â â â â â â â 1â? (A) (1, - 1) â â â (b) (3, -1) â â â â (c) (1, 0, 0, -1) â â â â â â â â â â (d) (1, 3, - 1) (vi) â
â (A) 3 Â (B)Â 77Â Â (C)Â 42Â 7Â +Â 3Â Â (D)Â 497 (vii) WhenÂ xÂ =Â -Â 1Â Â , what is the value of the Polinomio 2x3 + 2x? (A) 4 â (b) 2â (c) -2 â â â â (d) -4 (vii) If â, what is a factor of the polynomial
3x2â+â mxâ then find the value of m. (A) 2â (b) -2â (c) â -3â â â â (d) â (x2-3âviâ (i) In an algebraic expression, if the powers of variables are whole numbers, then algebraic expression is a polynomial. In the expression 2x2â+â 12, the power of the variable X is 2, which is a whole number. Thus, the expression 2x2â+â 12 is a polynomial. Then, the
correct answer is the option (d). (ii) 7 = 7ã - 1 = 7x0 The degree of polynomial 7 is 0. Then, the correct answer is the option (d). (iii) The degree of 0 polynomial is not defined. Then, the correct answer is the option (c). (iv) The highest power of the variable in a polynomial is called the degree of polynomial. The degree of polynomial 2x2â+ 5x3â+ 7 is
3. Then, the correct answer is the option (a). (v) â x3-1 = x3+0x2+0x-1 The shape of the coefficient of polynomial X3-1â is (1, 0, 0, âˆ'1).)ii(61 + 4x)i(.etneiciffeoc id amrof ni oimonilop etneuges li erevircs :65 .n anigaP .4p5 ¢Ã+ 3p2 ¢Ã+ ¢Ã2p01+ avit ¢Ã ¢Ã ¢Ã +¢Ã ¢Ã ¢Ã ¢Ã +¢Ã ¢Ã ¢Ã Ã +¢Ã ¢Ã ¢Ã +¢Ã ¢Ã ¢Ã +¢Ã ¢Ã ¢Ã +¢Ã ¢Ã ¢Ã +¢Ã8âË¢Ã o 8
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= 1-x6-2x4+3x12+3x2+5x7- = 21-3x12+x6-2x4+5x7-3x2 = 4+3x7-x23-4+3x7-x22x = 4+3x7-x23-2x)xi(.)c(enoizpo'l ¨Ã atterroc atsopsir aL ,idniuQ 3âË¢Ã ¢Ã ¢Ã ¡â ¢Ã 0 = ¢Ãm ¢Ã +¢Ã ¢Ã â¡â ¢Ã 0 = 1 ¢Ã - £Ã ¢Ãm +¢Ã2)1(â£Ã ¢Ã3â ¡â ¢Ã 0 =)1(p ¢Ã´ÂË¢Ã .)x(p ¢Ã id erottaf nu ¨Ã)1â Ë¢Ã ¢Ãx(.xm +¢Ã2x3 ¢Ã =)x(p ¢ÃteL)iiiv(.)d(enoizpo'l ¨Ã
atterroc atsopsir al ,idniuQ .4âË¢Ã ¨Ã 1âË¢Ã Ã = x odnauq oimonilop led erolav li ,otnatreP 4âËÃ ¢Ã = 2 âË¢Ã ¢Ã2âËÃ ¢Ã = 2â ËÃ ¢Ã)1âË¢Ã(Ã â£Ã ¢Ã2 =)1âË¢Ã(¢Ã - £Ã ¢Ã2 + 3)1âË¢Ã(â£Ã ¢Ã2 =)1âË¢Ã(p ¢Ã´ÂË¢Ã x2 + ¢Ã3x2 ¢Ã =)x(p ¢ÃteL)iiv(.)a(enoizpo'l ¨Ã atterroc atsopsir al ,idniuQ 3 = 3+343-343 = 3+77â£Ã77-277 ¢Ã = 77p´ÂË¢Ã
3+x77-2x ¢Ã = xp)iv(.)c(enoizpo'l ¨Ã atterroc atsopsir aL +2m2+3m+15 (i) x4+16 = x4+0x3+0x2+0x2+16 Therefore, the polynomial given as a coefficient is (1, 0, 0, 0, 16). (ii) M5+2M2+3M+15 = M5+0M4+0M3+2M2+3M+15 Therefore, the polynomial given in the form of coefficient is (1, 0, 0, 2, 3, 15). Page 56: write the index form of the
polynomial using the variable X from its coefficient form. (i) The form of the coefficient of polynomial is (3, âˆ'2, 0, 7, 18). Therefore, the index is polynomial is 3x4â âˆ ’2x3â+ 0x2â+ 7x+ 18 or 3x4â âˆ’ 2x3â+ 7xâ+ 18. (ii) The shape of the coefficient of polynomial is (6, 1, 0, 7). Therefore, the index is polynomial is 6x3â+ â x2â+ 0x â+ 7 or 6x3â+ â
x2â+ 7. (iii) The form of the coefficient of polynomial is (4, 5, âˆ'3, 0). Therefore, the index is the polynomial is 4x3â+ 5x2â âˆ ’3xâ+ 0 orâ 4x3â+
5x2ââ Page 56: Add the following polynomials. (i) 7x4 -2x3" +"10" +"10" +"3x3" +5x3" + 2x3" + 2x3" +
2x2" + 2x2" + 2x2" + 2x3" + 2x3" + 2x3" Take the second polynomial from the first. (i) 5x2-2y + 9; 3x2 + 5y -7 (iii) 2x2 + 3x + 5x2 - 2x + 3 (i) 5x2-2y + 9-3x2 + 5y-7 = 5x2-2y + 9-3x2-5y + 7 = 5x2- 3x2-2y-5y+7 = 2x2-7y+ (M3-2M+3 Dividend = â 3x3-8x2+7 Divisor = â x-3 in front of âˆ'3 = 3 The shape of the quotient coefficient is (3,4). Ã ¢ ë † Â´
quotient = = = x + 4 and Remainder = 19 Page 56: So the value of m, x + 3 is the factor of polynomial x3 - 2mx + 21? Let px=x3-2mx+21. (x + 3) is the factor of polynomial px=x3-2mx+21. Universo 3=0 ⇒-33-2m×-3+21=0 ⇒-27+6m+21=0 ⇒6m-6=0 ⇒6m=6m=1 Thus, the value of m is 1.56: At the end of the year 2016, the population of villages
Kovad, Varud, Chikhali is 5x2 -3 y2 , 7 y2 + 2 xy and 9 x2 + 4 xy respectively. At the beginning of the year 2017, x2 + xy - y2 , 5 xy and 3 x2 + xy people from each of the three villages respectively went to another village for education then what is the total remaining population of these three villages? Total population of the three villages 5x2-
3y2+7y2+2xy+9x2+4xy=5x2+9x2-3y2+7y2+2xy+4xy=14x2+6xy total number of people who have gone to another village for x2+xy-y2+5xy+3x2+x2+3xy Thus, the remaining total population of these three villages is 10x2 + 5y2 − xy. Page 56: Polynomials bx2 + x + 5 and bx3 -2x + 5 are divided by x-3 polynomial and the remaining are m and n
respectively. If m-n = 0 finds the value of b. Leave px=bx2+x+5 and qx=bx3-2x+5. The rest when px=bx2+x+5 is divided by (x − 3) is m. For the remaining theorem, Remainder p3=m ilb×32+3+5=m⇒m=9b+8 ....1 The rest when qx=bx3-2x+5 is divided by (x − 3) is n. For the remaining theorem, Remainder q3=n ✖33-2×3+5=n⇒n=27b-
6+5⇒n=27b-1 ....2 Now, m-n=0 ⇒9b+8-27b-1=0 Using 1 and 2⇒9b-27b+8+1=0-18b+9=0 ⇒-18b=-9 ⇒b=-9-18=12 Thus, the value of b is 12. Page 56: simplify (8m2 +.01 .01 +ân3 +âm6 laimonylop eht teg ot 3 +ân2 + Âm4 Âot dedda eb ot 7 + Ân Â+ Âm2 Â laimonylop eht ,suht 7 + n Â+ m2 = 3 Â Ä¨â Â01 + n2 Ä¯n3 ♪ **

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