MATHS

BOOKS - RD SHARMA MATHS (ENGLISH)

ALGEBRAIC EXPRESSIONS

Others

1. Identify the monomials, binomials, trinomials and quadrinomials among the following algebraic expressions:

(i) -7 (ii) $x+y$

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2. Identify the monomials, binomials, trinomials and quadrinomials among the following algebraic expressions:

(i) $4.\ 5a$

(ii) $a^3 - b^3$

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3. Identify the monomials, binomials, trinomials and quadrinomials among the following algebraic expressions: (i) $a^2 + 2ab + b^2$ (ii) $ax + by + c$

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4. Identify the monomials, binomials, trinomials and quadrinomials among the following algebraic expressions:

(i)$ax + by + cz + d$ (ii) $3xyz$ (iii) $x + y + z - xyz$

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5. In the algebraic expression $a^2 - 3b^2 + 7b^2 - 9a^2 + 6ab + 5$, we have, $a^2 and - 9a^2$ as like terms. Also, $-3b^2$ and $7b^2$ are like terms. But a^2, $7b^2$ and $6ab$ are unlike terms.

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6. In the binomial expression $5x + 7$, the constant term is 7. In the trinomial expression $a^2 + b^2 - \frac{3}{4}$, the constant term is $\frac{-3}{4}$.

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7. In the monomial $3xy$, the coefficient of y is $3x$, the coefficient of x is $3y$ and the coefficient of xy is 3. Consider the term $-8xy$ in the binomial $-8xy + 7$. The coefficient of x in the term $-8xy$ is $-8y$, the coefficient of y is $-8x$ and the coefficient of xy is -8.

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8. Write down the terms of the expression: $8x^4y - 7x^3yz + \frac{4}{3}x^2yz^2 - 5xyz.$

What is the coefficient of x^2 in the term $\frac{4}{3}x^2yz^2$?

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9. Write down the coefficients of $a,\ ab$ and abc in the term $4a^4b^2c$ of the algebraic expression $4a^4b^2c - 3a^3b^2c + \frac{3}{2}ab^3c^2.$

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10. In the algebraic expression $5x^2y + 7xy^2 - 3xy - 4yx^2,$ we have $5x^2y$ and $-4yx^2$ as like terms, whereas $7xy^2$ and $-3xy$ are unlike terms.

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11. In the following write down the pairs which contain like terms:

(i) $3x,\ -7x$ (ii) $16x,\ 16y$

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12. In the following write down the pairs which contain like terms:

(i) $x^2y, \quad -7x^2y$ (ii) $9ab, \quad -6b$

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13. In the following write down the pairs which contain like terms:

(i) $a^2, \ 4b^2$ (ii) $a^2b, \ 3a^2bc$

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14. Identify the like terms and also mention the coefficients of those terms in the following terms: $4xy, \quad -5x^2y, \quad -3yx, \ 2xy^2$

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15. If $x = 1$ and $y = 2$, find the values of each of the following algebraic expressions:

(i) $2x + 3$ (ii) $3x - 5y$

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16. If $x = 1$ and $y = 2$, find the values of each of the following algebraic expressions:

(i) $3x + 2y - 7$ (ii) x^2

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17. If $x = 1$ and $y = 2$, find the values of each of the following algebraic expressions:

(i) x^2y (ii) $x^2 + y^2$ (iii) $y^2 + 3 - x^2$

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18. If $x = 1,\ y = -2\ and\ z = 3,$ find the values of each of the following algebraic expressions:

(i) $x^3 + y^3 + z^3 - 3xyz$ (ii) $3xy^4 - 15x^2y + 4z$

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19. Find the values of each of the following expressions for $a = 1,\ b = 2\ and\ c = -1.$

(i) $a^2 + b^2 + 2ab$ (ii) $2a^2 - b^2c + 3abc$

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20. Find the values of each of the following expressions for $a = 1,\ b = 2\ and\ c = -1.$

(i) $a^3 + b^3 + c^3 - 3abc$ (ii) $a^2 + b^2 + c^2 - ab - bc - ca$

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21. Identify the monomials, binomials, trinomials and quadrinomials from the following expressions:

(i) $4x^2$ (ii) $x^2 - 1$

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22. Identify the monomials, binomials, trinomials and quadrinomials from the following expressions:

(i) $x^2 - y^2$ (ii) $3x^2 + 4y^2 + 5z$

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23. Identify the monomials, binomials, trinomials and quadrinomials from the following expressions: (i) $ax^2 + bx + c$ (ii) $a^2 + b^2 + c^2 - d^2$

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24. Identify the monomials, binomials, trinomials and quadrinomials from the following expressions: (i) $3ab^2$ (ii) $a^3 + b^3 - 3ab + 5$

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25. Identify the monomials, binomials, trinomials and quadrinomials from the following expressions:

(i) xyz

(ii) $3x - 2$

(iii) $4x - 3x$

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26. Write all the terms of each of the following algebraic expressions:

(i)$3x^5 + 5y^4 - 7x^2y + 7$

(ii)$9y^3 - 2z^3 + 7x^3y - 3xyz$

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27. Write all the terms of each of the following algebraic expressions:

(i)$a^5 - 3ab - b^2 + 6$

(ii) $x^2 - x + 1$

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28. Write down the coefficient of x in each of the following:

(i)$3x$ (ii) $-4ax$

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29. Write down the coefficient of x in each of the following: (i)$5xy^2$ (ii) xyz

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30. Write down the coefficient of x in each of the following:

(i) $-\frac{3}{2}x + 5$ (ii) $-\frac{5}{2}xyz^2$

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31. Write the numerical coefficient of each term of the following algebraic expressions:

(i) $x^2 - 7x^2y + 5xy^2 - 2$ (ii) $-2a^3 + 7ab^2 - 6ab + 8$

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32. Identify the like terms in each of the following:

(i) $x^2,\ y^2, 2x^2, z^2$

(ii) $2xy,\ yz,\ 3x, \frac{yz}{2}$

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33. Identify the like terms in each of the following:

(i) $-2x^2y\,,\ x^2z,\ \ -yx^2,\ x^2y^2$

(ii)$cab^2,\ a^2bc,\ b^2ac,\ c^2ab,\ ab^2c,\ abc,\ acb^2$

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34. Identify the like terms in each of the following algebraic expressions:

(i) $x-2y+3z-4x+3xy$

(ii)$3a+2b-c+\frac{3}{2}a-4+3b$

(iii)$xy^2+3x^2y-4x^2y^2-5+y^2x-2z^2x+3xz^2$

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35. Evaluate each of the following algebraic expressions for $x=2,\ y=\ -3,\ z=\ -2,\ a=2,\ b=3$:

(i) $ax+by+z$

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36. Identify the monomials, binomials, trinomials and quadrinomials from the following expressions:

(i) a^2 (ii) $a^2 - b^2$

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37. Identify the monomials, binomials, trinomials and quadrinomials from the following expressions:

(i)$x^3 + y^3 + z^3$

(ii) $x^3 + y^3 + z^3 + 3xyz$

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38. Identify the monomials, binomials, trinomials and quadrinomials from the following expressions: (i)$7 + 5$ (ii) $abc + 1$

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39. Identify the monomials, binomials, trinomials and quadrinomials from the following expressions:

(i)$3x - 2 + 5$ (ii) $2x - 3y + 4$

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40. Identify the monomials, binomials, trinomials and quadrinomials from the following expressions:

(i)$xy + yz + zx$ (ii) $ax^3 + bx^2 + cx + d$

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41. Write all the terms of each of the following algebraic expressions:

(i) $3x$ (ii) $2x - 3$

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42. Write all the terms of each of the following algebraic expressions:

(i)$2x^2 - 7$ (ii) $2x^2 + y^2 - 3xy + 4$

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43. Identify the like terms and also mention the numerical coefficients of those terms:

(i) $4xy, \ -5x^2y, \ -3yx, \ 2xy^2$

(ii)$7a^2bc, \ -3ca^2b, \ -\frac{5}{2}abc^2, \frac{3}{2}abc^2, \ -\frac{4}{3}cba^2$

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44. Identify the like terms in the following algebraic expressions:

(i)$a^2 + b^2 - 2a^2 + c^2 + 4a$

(ii)$3x + 4xy - 2yz + \frac{5}{2}zy$

(iii)$abc + ab^2c + 2acb^2 + 3c^2ab + b^2ac - 2a^2bc + 3cab^2$

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45. Write the coefficient of x in the following:

(i) $-12x$ (ii) $-7xy$

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46. Write the coefficient of x in the following:

(i) xyz (ii) $-7ax$

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47. Write the coefficient of x^2 in the following:

(i) $-3x^2$ (ii) $5x^2yz$

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48. Write the coefficient of x^2 in the following:

(i) $\frac{5}{7}x^2z$ (ii) $-\frac{3}{2}ax^2+yx$

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49. Write the coefficient of:

(i)y in $-3y$

(ii) a in $2ab$

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50. Write the coefficient of:

(i)z in $-7xyz$

(ii) p in $-3pqr$

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51. Write the coefficient of:

(i) y^2 in $9xy^2z$ (ii) x^3 in x^3+1 (iii)x^2 in $-x^2$

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52. Write the numerical coefficient of each of the following:

(i) xy

(ii) $-6yz$

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53. Write the numerical coefficient of each of the following:

(i) $7abc$

(ii) $-2x^3y^2z$

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54. Write the numerical coefficient of each terms in the following algebraic expressions:

(i) $4x^2y - \frac{3}{2}xy + \frac{5}{2}xy^2$

(ii) $-\frac{5}{3}x^2y + \frac{7}{4}xyz + 3$

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55. Write the constant term of each of the following algebraic expressions:

(i) $x^2y - xy^2 + 7xy - 3$

(ii) $a^3 - 3a^2 + 7a + 5$

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56. Evaluate each of the following expressions for $x = -2,\ y = -1,\ z = 3$:

(i) $\frac{x}{y} + \frac{y}{z} + \frac{z}{x}$

(ii) $x^2 + y^2 + z^2 - xy - yz - zx$

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57. Evaluate each of the following algebraic expressions for $x = 1,\ y = -1, z = 2,\ a = -2,\ b = 1,\ c = -2$:

(i) $ax + by + cz$

(ii) $ax^2 + by^2 - cz^2$

(iii) $axy + byz + cxy$

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58. Add $4xy,\ 12xy$ and $3xy$.

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59. Add $3a^2b,\ 2a^2b,\ 13a^2b$ and a^2b.

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60. Add $-7xy,\ -3xy$ and $-9xy$.

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61. Add $-4a^2y,\ -4a^2y,\ -10a^2y$ and $-3a^2y$.

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62. Add $4x^2y,\ 8x^2y$ and $-2x^2y$.

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63. Add $4ab,\ -7ab,\ -10ab\ and\ 3ab$.

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64. Add the following:

(i)$3x+2y\ and\ x+y$

(ii) $x+y+3\ and\ 3x+2y+5$

(iii) $2x+3y+z\ and\ 2x-y-z$

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65. Add:

(i) $xy^2 + 4x^2y - 7x^2y - 3xy^2 + 3 \; and \; x^2y + xy^2$

(ii) $5x^2 + 7y - 6z^2, \; 4y + 3x^2, 9x^2 + 2z^2 - 9y \; and \; 2y - 2x^2$

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66. Subtract:

(i)$5x$ from $9x$

(ii) $-7x$ from $5x$

(iii)$-8a$ from $-3a$

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67. Subtract: $a^2 - 3ab$ from $2a^2 - 7ab$

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68. Subtract: $x^2 - 3xy + 7y^2 - 2$ from $6xy - 4x^2 - y^2 + 5$

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69. From the sum of $4x^4 - 3x^3 + 6x^2$, $4x^3 + 4x - 3$ and $-3x^4 - 5x^2 + 2x$ subtract $5x^4 - 7x^3 - 3x + 4$.

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70. What should be added to $a^2 + 2ab + b^2$ to obtain $4ab + b^2$?

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71. What should be subtracted from $a^3 - 4a^2 + 5a - 6$ to obtain $a^2 - 2a + 1$?

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72. How much is $x^3 - 2x^2 + x + 4$ greater than $2x^3 + 7x^2 - 5x + 6$?

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73. How much is $2a^2 - 7a + 5$ less than $a^3 - 3a^2 + 2a - 3$?

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74. How much does $2a^2 - 5a + 4$ exceed $3a^3 - 5a^2 + 7a - 9$?

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75. Add the following:

(i) $3x \text{ and } 7x$

(ii) $-5xy \text{ and } 9xy$

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76. Simplify each of the following:

(i)$7x^3y + 9yx^3$

(ii) $12a^2b + 3ba^2$

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77. Add the following: i) $7abc, -5abc, 9abc, -8abc$

$ii)2x^2y, -4x^2y, 6x^2y, -5x^2y$

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78. Add the following expressions: (i)

$x^3 - 2x^2y + 3xy^2 - y^3, 2x^3 - 5xy^2 + 3x^2y - 4y^3$ (ii)

$a^2 - 2a^3b + 3ab^3 + 4a^2b^2 + 3b^4, -2a^2 - 5ab^3 + 7a^3b - 6a^2b^2 + b^4$

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79. Add the following expressions: (i)

$8a - 6ab + 5b, \ -6a - ab - 8b \ and \ -4a + 2ab + 3b$ (ii)

$5x^3 + 7 + 6x - 5x^2, \ 2x^2 - 8 - 9x, \ 4x - 2x^2 + 3x^3, \ 3x^3 - 9x - x^2 \ and \ x$

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80. Add the following: $x - 3y - 2z$ (ii) $4ab - 5bc + 7ca$

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81. Add the following: (i)$x - 3y - 2z, 5x + 7y - 8z, 3x - 2y + 5z$

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82. Add the following: $4ab - 5bc + 7ca, -3ab + 2bc - 3ca, 5ab - 3bc + 4ca$

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83. Add $2x^2 - 3x + 1$ to the sum of $3x^2 - 2x$ and $3x + 7$.

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84. Add $x^2 + 2xy + y^2$ to the sum of $x^2 - 3y^2$ and $2x^2 - y^2 + 9$.

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85. Add $a^3 + b^3 - 3$ to the sum of $2a^3 - 3b^3 - 3ab + 7$ and $a^3 + 3ab - 9$.

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86. Subtract:

(i)$7a^2b$ from $3a^2b$

(ii) $4xy$ from $-3xy$

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87. Subtract:

(i) $-4x$ from $3y$

(ii) $-2x$ from $-5y$

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88. Subtract: $6x^3 - 7x^2 + 5x - 3$ from $4 - 5x + 6x^2 - 8x^3$

$x^3 + 2x^2y + 6xy^2 - y^3$ from $y^3 - 3xy^2 - 4x^2y$

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89. From (a) $p^3 - 4 + 3p^2$, take away $5p^2 - 3p^3 + p - 6$

(b) $7 + x - x^2$, take away $9 + x + 3x^2 + 7x^3$

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90. From (a)$1-5y^2$, take away y^3+7y^2+y+1

(b)x^3-5x^2+3x+1, take away $6x^2-4x^3+5+3x$

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91. From the sum of $3x^2-5x+2$ and $-5x^2-8x+9$ subtract $4x^2-7x+9$.

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92. Subtract the sum of $13x-4y+7z$ and $-6z+6x+3y$ from the sum of $6x-4y-4z$ and $2x+4y-7$.

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93. From the sum of $x^2+3y^2-6xy, 2x^2-y^2+8xy, y^2+8$ and x^2-3xy subtract $-3x^2+4y^2-xy+x-y+3$.

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94. What should be added to $xy - 3yz + 4zx$ to get $4xy - 3zx + 4yz + 7$?

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95. What should be subtracted from $x^2 - xy + y^2 - x + y + 3$ to obtain $x^2 + y^2 - 4xy + 1$?

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96. How much is $x - 2y + 3z$ greater than $3x + 5y - 7$?

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97. How much is $x^2 - 2xy + 3y^2$ less than $2x^2 - 3y^2 + xy$?

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98. How much does $a^2 - 3ab + 2b^2$ exceed $2a^2 - 7ab + 9b^2$?

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99. What must be added to $12x^3 - 4x^2 + 3x - 7$ to make the sum $x^3 + 2x^2 - 3x + 2$?

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100. If $P = 7x^2 + 5xy - 9y^2,\ Q = 4y^2 - 3x^2 - 6xy$ and $R = -4x^2 + xy + 5y^2,$ show that $P + Q + R = 0.$

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101. If $P = 7x^2 + 5xy - 9y^2,\ Q = 4y^2 - 3x^2 - 6xy$ and $R = -4x^2 + xy + 5y^2,$ *show that* $P + Q + R = 0.$

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102. If $P = a^2 - b^2 + 2ab,\ Q = a^2 + 4b^2 - 6ab$,

$R = b^2 + b,\ S = a^2 - 4ab$ and $T = -2a^2 + b^2 - ab + a$.

Find $P + Q + R + S - T$.

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103. Put the last two terms of each of the following expressions in the parentheses preceded by a minus sign:

(i)$2x + 3y - 4z + 7$

(ii) $3a - 2b - 7c - 4d$

(iii)$7xy - 4yz + 3zx - 5$

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104. Write each of the following statement by using appropriate grouping symbols:

(a) The sum of $x + y$ and $2xy - 3x + 2y$ is subtracted from $xy - x + y$.

(b) The subtraction of $x + y - 3$ from $3x - 2y + 9$ is subtracted from the sum of $4x + 3y - 9$ and $2x - y + z$.

(c) The subtraction of $y - 1$ from x is added to $3y$ and its difference from y is subtracted from x.

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105. Place the last two terms in each of the following expressions in parentheses preceded by a $'-'$ sign:

(i)$9a + 5xy - 7x^2 + 8y - 6$

(ii)$y + z + x^2 - y^2 - a^2$

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106. Place the last two terms in each of the following expressions in parentheses preceded by a $'-'$ sign:

(i)$3a - 2b + 4c - 5$

(ii) $7a + 3b + 2c + 4$

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107. Place the last two terms in each of the following expressions in parentheses preceded by a $'-'$ sign: $2a^2 - b^2 - 3ab + 6$ (ii) $a^2 + b^2 - c^2 + ab - 3ac$

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108. Write each of the following statement by using appropriate grouping symbols: The sum of $a - b$ and $3a - 2b + 5$ is subtracted from $4a + 2b - 7$. Three times the sum of $2x + y - \{5 - (x - 3y)\}$ and $7x - 4y + 3$ is subtracted from $3x - 4y + 7$. The subtraction of $x^2 - y^2 + 4xy$ from $2x^2 + y^2 - 3xy$ is added to $9x^2 - 3y^2 - xy$.

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109. Simplify each of the following algebraic expressions: $(i)\left(a^2 + b^2 + 2ab\right) + \left(a^2 + b^2 - 2ab\right)$

$(ii)\left(a^2+b^2+2ab\right)-\left(a^2+b^2-2ab\right)$

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110. Simplify each of the following: $-5(a+b)+2(2a-b)+4a-7$

$-3(a+b)+4(2a-3b)-(2a-b)$

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111. Simplify each of the following: $2x-\{5y-(x-2y)\}$

$2x-[3y-\{2x-(y-x)\}]$

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112. Simplify each of the following:

1. $m-[m+\{m+n-2m-(m-2n)\}-n]$

2. $3x^2z-4yz+3xy-\left\{x^2z-\left(x^2z-3yz\right)-4yz-7z\right\}$

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113. Simplify : $15x - \left[8x^2 + 3x^2 - \left\{8x^2 - \left(4 - 2x - x^3\right) - 5x^3\right\} - 2x\right]$

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114. Simplify: $5 + \left[x - \left\{2y - (6x + y - 4) + 2x^2\right\} - \left(x^2 - 2y\right)\right]$

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115. Simplify and find the value of the following expression when $a = 3$ and $b = 1$:

$4\left(a^2 + b^2 + 2ab\right) - \left[4\left(a^2 + b^2 - 2ab\right) - \left\{ - b^3 + 4(a - 3)\right\}\right]$

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116. Simplify each of the following algebraic expressions by removing grouping symbols.

1. $2x + (5x - 3y)$

2. $3x - (y - 2x)$

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117. Simplify each of the following algebraic expressions by removing grouping symbols.

$5a - (3b - 2a + 4c) - 2(x^2 - y^2 + xy) - 3(x^2 + y^2 - xy)$

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118. Simplify each of the following algebraic expressions by removing grouping symbols.

(i) $3x + 2y - \{x - (2y - 3)\}$

(ii) $5a - \{3a - (2 - a) + 4\}$

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119. Simplify each of the following algebraic expressions by removing grouping symbols.

1. $a-[b-\{a-(b-1)+3a\}]$

2. $a-[2b-\{3a-(2b-3c)\}]$

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120. Simplify each of the following algebraic expressions by removing grouping symbols.

1. $x+[5y-\{2x-(3y-5x)\}]$

2. $2a-[4b-\{4a-3(2a-b)\}]$

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121. Simplify each of the following algebraic expressions by removing grouping symbols.

1. $a-[a+\{a+b-2a-(a-2b)\}-b]$

2. $2x-3y-[3x-2y-\{x-z-(x-2y)\}]$

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122. Simplify each of the following algebraic expressions by removing grouping symbols.

1. $5+[x-\{2y-(6x+y-4)+2x\}-\{x-(y-2)\}]$

2. $x^2-\left[3x+\left\{2x-\left(x^2-1\right)\right\}+2\right]$

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123. Simplify each of the following algebraic expressions by removing grouping symbols.

1. $20-\left[5xy+3\left\{x^2-(xy-y)-(x-y)\right\}\right]$

2. $85-[12x-7(8x-3)-2\{10x-5(2-4x)\}]$

3. $xy[yz-zx-\{yx-(3y-xz)-(xy-zy)\}]$

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124. Add the following : $2x^2y,-4x^2y,6x^2y,-5x^2y$

A. x^2y

B. $-x^2y$

C. $17x^2y$

D. $15x^2y$

Answer: B

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125. Which of the following is not a monomial?

A. $2x^2 + 1$

B. $3x^4$

C. ab

D. x^2y

Answer: A

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126. The sum of the coefficients in the monomials $3a^2b$ and $-2ab^2$ is

A. 5

B. -1

C. 1

D. -6

Answer: C

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127. The coefficient of x^2 in $-\frac{5}{3}x^2y$ is equal to :-

(a) $-\frac{5}{3}$ (b) $-\frac{5}{3}y$ (c) $\frac{5}{3}$ (d) $\frac{5}{3}y$

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128. If $a,\ b\ and\ c\ are$ respectively the coefficients of x^2 in $x^2,\ 2x^2+x$ and $2x-x^2$ respectively, then $a+b+c=$

(a)0 (b) -2 2 (d) -1

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129. The sum of the coefficients in the terms of $2x^2y-3xy^2+4xy$ is

(a)-3 (b) 3 (c)9 (d) 5

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130. The product of the coefficients of terms in $-\frac{4}{3}ab^2+\frac{1}{4}bc^2+3ca^2$ is

(a)1 (b) $\frac{1}{2}$ (c)-1 (d) 3

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131. If $a\ and\ b$ are respectively the sum and product of coefficients of terms in the expression $x^2+y^2+z^2-xy-yz-zx,$ then $a+2b=$

(a)0 (b) 2 (c)-2 (d) -1

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132. If $P=3x^3+3x^2+3x+3$ and $Q=3x^2-3x+3,$ then $P-Q=$

(a)$3x^3$ (b) $3x^3+6x^2+6x+6$ (c)$6x^2+6x+6$ (d) $3x^3+6x$

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133. The sum of the values of the expression $2x^2-2x+2$ when $x=-1$ and $x=1$ is

(a)6 (b) 8 (c)4 (d) 2

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134. What should be added to $3x^2 + 4$ to get $9x^2 - 7$?

(a)$6x^2 - 11$ (b) $6x^2 + 11$ (c)$12x^2 - 11$ (d) $12x^2 + 11$

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135. How much is $a^2 - 3a$ greater than $2a^2 + 4a$?

(A) $a^2 - 7a$ (B) $a^2 + 7a$ (C) $-a^2 - 7a$ (D) $a^2 + 7a$

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136. How much is $-2x^2 + x + 1$ less than $x^2 + 2x - 3$?

(a)$x^2 + 3x - 2$ (b) $3x^2 + x - 4$ (c)$-3x^2 - x + 4$ (d) $3x^2 + 3x - 4$

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137. What should be added to $xy + yz + zx$ to get $xy - yz - zx$?

(a)$-2xy - 2yz - 2zx$ (b) $-3xy - yz - zx$ (c)$-3xy - 3yz - 3zx$ (d)

$2xy + 2yz + 2zx$

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