

MATHEMATICS

ALGEBRAIC EXPRESSIONS

- Simplify : $81a^2b^2c^2 + 64a^6b^2 - 144a^4b^2c$ @ $a^2b^2[9c + 8a^2]^2$ @ $-a^2b^2[9c - 8a^2]^2$ @ $a^2b^2[9c - 8a^2]^2$ @ None @ 0010
- Simplify : $(a^2 + b^2 + 2ab) + (a^2 + b^2 - 2ab)$ @ $-2a^2 + 2b^2$ @ $2a^2 - 2b^2$ @ $2a^2 + 2b^2$ @ $(2a^2 - 2b^2)$ @ 0010
- Simplify : $2x - [3y - \{2x - (y - x)\}]$ @ $5x + 4y$ @ $5x - 4y$ @ $-5x - 4y$ @ $-5x + 4y$ @ 0100
- $-m - [m + \{m + n - 2m - (m - 2)\} - n]$ @ $2n$ @ $3n$ @ $-2n$ @ $-3n$ @ 0010
- Simplify : $85 - [12x - 7(8x - 3) - 2\{10x - 5(2 - 4x)\}]$ @ $44 + 104x$ @ $-44 + 104x$ @ $44 - 104x$ @ $-44 - 104x$ @ 1000
- Subtract $2x^3 + x^2 - 4x - 1$ from $5x^3 + 5x^2 + 9$ @ $-3x^3 + 4x^2 + 4x + 10$ @ $3x^3 + 4x^2 + 4x + 10$ @ $3x^3 + 4x^2 + 4x - 10$ @ $-(3x^3 + 4x^2 + 4x + 10)$ @ 0100
- $a^4 + 4a^2b^2 + b^4$ is more than $a^4 - 8a^2b^2 + b^4$ by $-12a^2b^2$ @ $-12a^2b^2$ @ $2a^4 + 2b^4$ @ None @ 1000
- The value of $(x + 2y + 2z)^2 + (x - 2y - 2z)^2$ is $-2x^2 + 8y^2 + 8z^2$ @ $2x^2 + 8y^2 + 8z^2 + 8xyz$ @ $2x^2 + 8y^2 + 8z^2 - 8yz$ @ $2x^2 + 8y^2 + 8z^2 + 16yz$ @ 0001
- Simplify: $xy - [yz - zx - \{yx - (3y - xz) - (xy - zy)\}]$ @ $xy + 2zx + 3y$ @ $xy - 2zx - 3y$ @ $3xy + 2zx - 3y$ @ $xy + 2zx - 3y$ @ 0001
- Simplify: $-3(a + b) + 2(2a - b) + 4a - 5$ @ $5(a - b + 1)$ @ $5(a + b + 1)$ @ $5(a + b - 1)$ @ $5(a - b - 1)$ @ 0001
- If $a = -2$, $b = 3$ and $c = 4$, then the value of $a^3 + b^3 + 3a^2c - 4bc^3$ is -107 @ -107 @ 701 @ -701 @ 0001
- If $P = a^3 - 4b^3 + 3a^2b$, $Q = -4a^3 + 13a^2b + 7b^3$, $R = -4a^2b + 8b^3 + 3a^3$ and $S = 12a^2b - 5b^3 + 9a^3$ and $P - Q + R - S$ is equal to $-a^3 + 3b^3 - 26a^2b$ @ $a^3 - 2b^3 + 26a^2b$ @ $a^3 + 2b^3 - 26a^2b$ @ $-a^3 - 2b^3 - 26a^2b$ @ 1000
- Simplify: $7 - [3x + \{-2y + 3z - (3y + 5z) + 8\} - (3y^2 + 7x) + 9]$ @ $-1 + 4x - 3y - 3z + 3y^2$ @ $-10 + 4x + 5y + 2z + 3y^2$ @ $-10 - 4x + 5y - 2z + 3y^2$ @ $-1 + 14x - 5y + 2z + 3y^2$ @ 0100
- If $m = \frac{3x-4}{5}$; $n = \frac{x-7}{3}$ and $3(m + n) = 13$ then find the value of x @ 6 @ 8 @ 10 @ 16 @ 0100
- If $P = x + 1$ and $\frac{4P-3}{2} - \frac{3x+2}{5} = \frac{3}{2}$, then the value of x is -1 @ 2 @ -1 @ 1000
- If $\frac{5x}{4} + \frac{6-x}{8} = \frac{6(x+3)}{3} - \frac{1}{6}$, then $x = \frac{121}{22}$ @ $\frac{121}{12}$ @ $\frac{212}{21}$ @ $-\frac{122}{21}$ @ 0001
- If the present age of Jacob's father is three times that of Jacob, after five years, sum of their ages would be 70 years, then the present age of Jacob's father is 39 years @ 45 years @ 54 years @ 60 years @ 0100
- The population of town A is 4800 more than town B. If 3100 people move from town B to town A, the population of town A will be 11 times that of town B. The original total population of the two towns is 12580 @ 12780 @ 13200 @ 13300 @ 0010
- If the sum of two numbers is 184 and one-third of the smaller number exceeds one-seventh of the larger number by 8, then the larger number is 112 @ 72 @ 104 @ 80 @ 1000
- A person has only 25 paise and 50 paise coins. In total he has 40 coins and the value of them is Rs. 12.50. Find the number of 50 paise coins he has 10 @ 15 @ 25 @ 20 @ 1000
- Value of x in the equation $x - \left(\frac{4x-27}{3} - 3\right) = 2x - \frac{3x-4}{7}$ is -2 @ 4 @ 6 @ 8 @ 0010
- Simplify : $81a^2b^2c^2 + 64a^6b^2 - 144a^4b^2c$ @ $a^2b^2[9c + 8a^2]^2$ @ $-a^2b^2[9c - 8a^2]^2$ @ $a^2b^2[9c - 8a^2]^2$ @ None @ 0010
- The degree of $3x^2 - 9$ is 1 @ 2 @ 3 @ 4 @ 0100

- 24The expression $x + y + 2$ is @ Monomial @ Binomial @ Trinomial @ None of these @0010
- 25The expression xyz is @ Monomial @ Binomial @ Trinomial @ None of these @1000
- 26Add $5a^2b$, $-8a^2b$ and $7a^2b$ @ $-10a^2b$ @ $4a^2b$ @ $20a^2b$ @ $10a^2b$ @0100
- 27Subtract $(a^2 + b^2 - 2ab)$ from $(a^2 + b^2 + 2ab)$ @ $-4ab$ @ $-2ab$ @ $4ab$ @ $2ab$ @0010
- 28The degree of a polynomial $ax^5 - bx^4 + c$ is @9 @5 @4 @1 @0100
- 29The expression $4(x - 2) + 3(x - 1)$ is equal to @ $7x - 11$ @ $7x + 11$ @ $6x - 10$ @ $6x + 10$ @1000
- 30Which expression is equal to $5(2x + 1 - x - 4)$? @ $9x - 3$ @ $5x - 15$ @ $5x - 3$ @ $5x + 25$ @0100
- 31Which one of the following is equivalent to the expression $(2^5)(2^6)$? @2048 @230 @411 @430 @1000
- 32A tanker contains 500 litres of water. Due to a small hole in the tanker, the quantity of water is decreasing at the rate of 9 litres every hour. What will be the quantity of water in the tank after 10 hours? @410 litres @491 litres @400 litres @90 litres @1000
- 33Subtract the sum of $(8a - 6a^2 + 9)$ and $(-10a - 8 + 8a^2)$ from -3 is @ $2a^2 - 2a - 2$ @ $2a^2 - 2a + 4$ @ $-2a^2 + 2a - 4$ @ $-2a^2 + 2a - 2$ @0010
- 34An expression is taken away from $3x^2 - 4y^2 + 5xy + 20$ to obtain $-x^2 - y^2 + 6xy + 20$, then the expression is @ $4x^2 - 3y^2 - xy$ @ $2x^2 - 5y^2 + xy + 40$ @ $3y^2 - xy - 4x^2$ @ $4x^2 + 3y^2 + xy$ @1000
- 35By how much is $a^4 + 4a^2b^2 + b^4$ more than $a^4 - 8a^2b^2 + b^4$? @ $12a^2b^2$ @ $-12a^2b^2$ @ $2a^4 + 2b^4$ @ $10a^2b^2$ @1000
- 36Simplify $(a^3 - 2a^2 + 4a - 5) - (-a^3 - 8a + 2a^2 + 5)$ @ $2a^3 + 7a^2 + 6a - 10$ @ $2a^3 + 7a^2 + 12a - 10$ @ $2a^3 - 4a^2 + 12a - 10$ @ $2a^3 - 4a^2 + 6a - 10$ @0010
- 37Simplify the following expression $x(y - z) - y(z - x) - z(x - y)$ @ $2x(y - z)$ @ $2y(z - x)$ @ $2x(z - y)$ @ None of these @1000
- 38The coefficient of x^2 in the expression $3x^3 - 7x^2 + 5x + 9$ is @3 @7 @-7 @5 @0010
- 39Subtract $(2a - 3b + 4c)$ from the sum of $(a + 3b - 4c)$, $(4a - b + 9c)$ and $(-2a + 3c - b)$ @ $a - 4b + 4c$ @ $a + 4b - 4c$ @ $-a + 4b + 4c$ @ $a + 4b + 4c$ @0001
- 40If the value of $2x^3 - 2x^2 + x - a$ equals to 5, when $x = 2$, then the value of 'a' is @4 @5 @3 @6 @B
- 41The value of $(0.05)^3$ is @ 0.000125 @ 0.00125 @ 0.0125 @ 0.125 @1000
- 42The value of $7.75 \div 0.25$ is @31 @0.0031 @0.31 @3.1 @1000
- 43Simplify $-4xy + 8x^2 + 18y^2 + 8xy + 24xy$ @0001
- 44The product of $(a - b)(a + b)(a^2 + b^2)$ is @ $a^2 - b^2$ @ $a^5 - b^3$ @ $a^4 - b^4$ @ $a^2 + b^4$ @0010
- 45What is the missing term in the following product? $(2a^3 - 3)(5a^3 - 2) = 10a^6 + \dots + 6$ @ $19a^3$ @ $-19a^3$ @ $16a^3$ @ $-16a^3$ @0100
- 46The value of $n^3 + 5n^2 + 5n - 2$ when $n = -2$ is @16 @0 @-40 @10 @0100
- 47The value of $9x^2 + 49y^2 - 42xy$ when $x = 15$ and $y = 3$ is @636 @576 @456 @386 @0100
- 48Simplify: $4st(s - t) - 6s^2(t - t^2) - 3t^2(2s^2 - s) + 2st(s - t)$ @ $-st^2$ @ $-2st^2$ @ $-3st^2$ @ $-4st^2$ @0010
- 49Divide $2x^3 - 4x^2$ by $2x$ @ $x^2 - 2x$ @ $-x^2 + 4$ @ $-x^2 + 4x$ @ $x^2 + 4$ @1000
- 50Divide $-15x^5y^4z^3 + 10x^4y^4z^4 + 20x^3y^2z$ by $5xyz$ @ $-3x^4y^3z^2 - 2x^3y^3z^3 + 4x^2y$ @ $-3x^4y^3z^2 + 2x^3y^3z^3 - 4x^2y$ @1000
- 51.The value of the expression $\frac{n^2}{2} + \frac{n}{2}$ when $n = 12$ is @76 @74 @78 @72 @0010
- 52.If $\frac{7x}{3} - \frac{7}{6}$ is a polynomial, then the zero of the polynomial is @ $1/2$, @ $-1/2$, @0 @ -2 @1000
- 53.If the zero of the polynomial in 'x' is $-5/4$, then the polynomial is @ $4x - 5$ @ $5x - 4$ @ $5x + 4$ @ $4x + 5$ @0010
- 54.If $A = -8x^2 - 6x + 10$, then its value when 'x' = $1/2$ is @6 @4 @5 @7 @0010
- 55.The third degree polynomial among the following is @ $2x^{3^{-1}} + 3x^{2^{-1}}$ @ $3x^{4^{-1}} + 2x^{3^{-1}} + 6x^{2^{-1}} + 8$ @ $3x^{2^{-1}} + 4x^{-2} + 5$ @ $2x^{5^{-3}} + 3x^{4^{-3}} + 7$ @0100

56. Among the following the expression which is not a monomial is $\frac{4a^3b^2c^5}{23}$ $-147x^3y^2$ $\frac{2}{7}x^{-2}y^5z$ $x^3y^5z^{12}$ 0010
57. If $x = \frac{a}{2}$, then the value of $4x^2 + 8x + 18$ is $a^2 + 2a + 8$ $a^2 + 3a + 18$ $a^2 + 4a + 18$ $a^2 + 5a + 18$ 0010
58. The value of the expression $\frac{-26}{3} - \frac{13x}{27}$ when $x = \frac{9}{13}$ is -8 -10 -9 -11 0100
59. Degree of the polynomial $p + qx^m + rx^{m+2} + 5x^{m+3} + x^{m+4}$ is m $m+2$ $m+3$ $m+4$ 0010
60. If $\frac{n(n+1)(2n+1)}{6}$ represents sum of the squares of first 'n' natural numbers, then its value when $n = 10$ is 365 375 395 385 0001
61. Degree of the polynomial $\frac{1}{2}x^5 + 3x^4 + 2x^3 + 3x^2 + 6$ is 4 3 5 2 0010
62. Degree of the monomial $\frac{3}{5}x^2y^6z^7$ is 15 9 8 13 1000
63. In a polynomial $3x + 5$ where $x = a + 2$, then its value when $a = 8$ is 25 45 35 40 0010
64. The sum of $\frac{3}{4}x^3, \frac{5}{6}x^3, -\frac{2}{3}x^3$ and $\frac{7}{2}x^3$ is $\frac{12}{53}x^3$ $-\frac{53}{12}x^3$ $\frac{53}{12}x^3$ $-\frac{12}{53}x^3$ 0010
65. The simplified form of $3x^3 - 2x^2 - 8x - 6x^2 + 7x^3 + 9x + 8x^3 - 9x^2 + 6x$ is $-18x^3 - 17x^2 + 7x$ $18x^3 - 17x^2 - 7x$ $18x^3 + 17x^2 - 7x$ $18x^3 - 17x^2 + 7x$ 0100
66. The ascending order of the polynomials $-3x^3 + 7x^2 - 9x^4 + 6x - 8$ is $-8 + 6x + 7x^2 - 3x^3 + 9x^4$ $-8 - 6x - 7x^2 - 3x^3 - 9x^4$ $-8 + 6x + 7x^2 - 3x^3 - 9x^4$ $8 + 6x + 7x^2 + 3x^3 + 9x^4$ 1000
67. If $A = -7x - 3x - 5x$ and $B = 9x + 3x + 2x$, then $A + B$ is $2x$ $-2x$ $-x$ $-3x$ C
68. If $\frac{1}{2}x - \frac{1}{3}x = A$ and $\frac{1}{3}x - \frac{1}{4}x = B$, then $A - B$ is $\frac{1}{12}x$ $-\frac{1}{12}x$ $-2x$ 0 1000
69. The equivalent expression of $2x^3 - 3x^2 - 8x - 3$ is $3x^3 - 5x^3 + 7x^2 - 5x^2 - 8x + 10x - 4 + 1$ $3x^3 - x^3 - 5x^2 + 2x^2 - 9x + x - 7 + 4$ $4x^3 - 6x^2 - 3x^3 + 3x^2 + x^2 - 9x + 3x + 6 - 3$ $4x^3 - 2x^3 + 3x^2 - 5x^2 - 8x + 6x + 4 - 1$ 1000
70. The descending order of $4x^2 - 9x^3 + 3x^2 - 9x^4 + 3x^3 - 9x^2 + 6x - 3x + 5 - 3$ is $-9x^4 + 6x^3 - 2x^2 + 3x + 2$ $-9x^4 - 6x^3 + 2x^2 - 3x + 2$ $-9x^4 - 6x^3 - 2x^2 + 3x + 2$ $-9x^4 + 6x^3 - 2x^2 + 3x - 2$ 0010
71. If $\frac{7}{5}x^3 + \frac{3}{4}x^3 + \frac{7}{2}x^3 + \frac{9}{3}x^3$ is added to $\frac{9x^3}{60}$, then the result is $-6x^3$ $6x^3$ $60x^3$ $16x^3$ 0100
72. If $2x - 3x + 5x = P$, $Q = -8x + 3x + 9x$ and $R = -8x - 6x - 7x$, then $(P + Q) - R$ is $27x$ $28x$ $29x$ $26x$ 0010
73. If $A = -3x^3 - 2x^3 + 4x^2 - 2x^2$, $B = -3x^2 + 5x^2 - 8x + 3x$ and $C = 2x - 9x - 7 + 8$, then $A + B + C$ in simplified form is $-5x^3 + 4x^2 - 12x + 1$ $5x^3 - 3x^2 - 12x + 1$ $-5x^3 - 4x^2 - 12x - 1$ $5x^3 + 3x^2 + 12x + 1$ 1000

74.If $4x^3y^2 + 3x^2y^3 - 8x^2y^5$ is added $-9x^2y^3 + 6x^2y^5 - 9x^3y^4$, then the result is $4x^3y^2 + 5x^2y^3 - 2x^2y^5 - 9x^3y^4$ @ $4x^3y^2 - 6x^2y^3 - 2x^2y^5 - 9x^3y^4$ @ $4x^3y^2 - 6x^2y^3 + 2x^2y^5 - 9x^3y^4$ @ $-4x^2y^2 - 6x^2y^3 - 2y^2y^5 - 9x^3y^4$ @ 0100

75.If $0.5x^3 + 1.85x^3 + 2.96x^3 - 4.71x^3$ is added to $(1.25x^4 - 2.5x^5 + 3.6x^4 - 4.71x^4)$, then the result is $0.6x^3 + 2.36x^4$ @ $-0.6x^3 - 2.36x^4$ @ $0.6x^3 - 2.36x^4$ @ $-0.6x^3 + 2.36x^4$ @ 0010

76.If $B = -9x^2 + 3x - 7$, then the additive inverse of B is $9x^2 - 3x - 7$ @ $9x^2 - 3x + 7$ @ $9x^2 - 3x - 7$ @ $-9x^2 + 3x + 7$ @ 0100

77.If $A = \frac{-3x^2}{4} + \frac{2}{3}x + 7$ and $B = \frac{1}{4}x^2 - \frac{1}{3}x + 8$, then $A - B$ is $x^2 - x + 1$ @ $-x^2 - x - 1$ @ $-x^2 + x - 1$ @ $x^2 + x + 1$ @ 0010

78.If $P = 2x^3 - 3x^2 - 5x + 6$ and $Q = \frac{1}{3}x^3 - \frac{3}{4}x^2 - \frac{5}{2}x + \frac{7}{3}$, then $Q - P$ is $\frac{5x^3}{3} + \frac{9x^2}{4} + \frac{5x}{2} - \frac{11}{3}$ @ $\frac{-5x^3}{3} - \frac{9x^2}{4} + \frac{5x}{2} - \frac{11}{3}$ @ $\frac{-5x^3}{3} - \frac{9x^2}{4} - \frac{5x}{2} - \frac{11}{3}$ @ $\frac{5x^3}{3} + \frac{9x^2}{4} + \frac{5x}{2} - \frac{11}{3}$ @ 0100

79.If $A = -\frac{3}{2}x^3 - \frac{9}{7}x^2 + \frac{6x}{7} + 2$ and $A + B = 0$, then polynomial B is $\frac{-3x^3}{2} - \frac{9}{2}x^2 + \frac{6x}{7} + 2$ @ $\frac{3x^3}{2} + \frac{9}{2}x^2 + \frac{6x}{7} + 2$ @ $\frac{-3x^3}{2} - \frac{9}{2}x^2 - 6x - 2$ @ $\frac{3x^3}{2} + \frac{9}{7}x^2 - \frac{6x}{7} - 2$ @ 0001

80.If $A = 2x^3 - 9x^2 - 6x + 7$ and $A + B = 5x^3 - 6x^2 - 8x + 9$, then the polynomial $(A + B)$ is $3x^3 - 3x^2 - 2x + 2$ @ $3x^3 + 3x^2 - 2x + 2$ @ $3x^3 + 3x^2 + 2x + 2$ @ $-3x^3 - 3x^2 - 2x + 2$ @ 0100

81.If $A = 4x^3 - 9x^2 - 9x - 8$ and $A - B = -2x^3 - 8x^2 - 6x - 2$, then the polynomial $B = A - (A - B)$ is $6x^3 - x^2 - 3x - 6$ @ $6x^3 + x^2 + 3x - 6$ @ $6x^3 + x^2 + 3x - 6$ @ $-6x^3 - x^2 - 3x - 6$ @ 1000

82.Given $A = 2x^3 - 3x^2 + 6x + 7$ and $B = 4x^3 - 9x^2 - 3x + 7$, If C, D are additive inverses of A and B, then $D - C$ is $-2x^3 + 6x^2 + 9x$ @ $-2x^3 + 5x^2 + 9x$ @ $-2x^3 - 6x^2 + 9x$ @ $-2x^3 - 6x^2 - 9x$ @ 1000

83.If $A - B = 2x^3 - 3x^2 + 8x - 7$ and $B = 5x^3 - 9x^2 + 6x - 8$, where $A = (A - B) + B$, then the polynomial A is $7x^3 - 12x^2 + 14x + 18$ @ $7x^3 - 12x^2 + 14x - 15$ @ $7x^3 - 12x^2 - 14x + 15$ @ $-7x^3 + 12x^2 - 14x - 15$ @ 0100

84.Given $C = \frac{-5}{6}x^2 - \frac{7}{6}x + \frac{3}{2}$ and $C + A = 0$. If $B = \frac{x^2}{6} - \frac{1}{6}x + \frac{1}{2}$ is added to A, then the result is $x^2 - x + 1$ @ $-x^2 - x - 1$ @ $x^2 + x - 1$ @ $x^2 - x + 1$ @ 0010

85.If $A = 7x^3 - 2x^2 - 9x + 6$, $B = 2x^3 - 8x^2 + 3x - 5$, $C = 2x^3 - 4x^2 - 8x + 7$, and $D = -3x^3 - 5x^2 + 6x + 7$, then $(A - B) - (B - C)$ is $5x^2 - 2x - 11$ @ $5x^2 + 2x + 11$ @ $5x^2 - 2x + 11$ @ $-5x^2 - 2x - 11$ @ 0100

86.The value of $(3p - 4)p + 5$ is $9p^2 - 12p + 5$ @ $9p^2 + 12p - 5$ @ $4p^2 + 12p - 5$ @ $9p^2 - 12p - 5$ @ 0001

87.The value of $(t/2 + 6)(t/3 - 4)$ is $\frac{t^3}{4} + \frac{3t^2}{2} - 12$ @ $\frac{t^4}{4} + \frac{3t}{2} - 18$ @ $\frac{t^3}{4} - \frac{3t^2}{2} + 18$ @ $\frac{t^3}{4} + \frac{3t^2}{2} - 18$ @ 0100

88. The value of $(497)^2$ is ____ (using the identity) @ 247006 @ 247009 @ 257006 @ 2578009 @ 0100

89. The expansion of $\left(\frac{1}{2}x^2y + \frac{1}{3xy^2}\right)^2$ is _____
 $\frac{1}{4}x^4y^2 - \frac{x}{3y} - \frac{1}{9x^2y^4}$ $\frac{1}{4}x^4y - \frac{x}{3y} + \frac{1}{9x^2y^4}$ $\frac{1}{4}x^4y^2 + \frac{x}{3y} + \frac{1}{9x^2y^4}$
 $\frac{1}{4}x^4y^2 - \frac{x}{3y} - \frac{1}{9x^2y^4}$ $x^4y^2 + \frac{1}{xy} - \frac{1}{9x^2y^4}$

90. The expansion of $(3.2d - 5f)^2$ is _____
 $10.24d^2 + 32df + 25f^2$ $10.24d^2 - 25f^2 + 32df$ $10.24d^2 - 32df + 25f^2$

91. Without actual multiplication, the value of (1001×1007) is _____
 10008007 10080007 1008007 0001

92. Without actual multiplication, the value of $(79.01 \times 79.01 + 2 \times 79.01 \times 20.99 + (20.99 \times 20.99))$ is _____
 10009 1000.05 10000 10007

93. If $(4x - 3 - 2x + 7)(-3x - 4 + 5x + 12)$ is simplified, then the answer is _____
 $4x^2 + 2x - 12$ $14x^2 - 22x + 12$ $4x^2 + 2x + 12$ $14x^2 - 2x - 12$

94. If $(x + 7)(x + 11)(x - 11)(x + 5)$ is simplified, then the answer is _____
 $2x^2 + 13x + 11$ $2x^2 - 13x + 11$ $2x^2 - 13x - 11$ $-2x^2 - 13x - 11$

95. $(12x^3 + 12x^3 - 10)(180x^6 + 12x^3 - 10)$ is _____
 $180x^6 - 12x^3 + 10$ $180x^6 + 12x^3 + 10$ $180x^6 - 12x^3 - 10$ $180x^6 + 12x^3 - 10$

96. If $A = 100^2 + 100(5 + 3)$ and $B = 100^2 - 100(8 + 3)$, then $A + B =$ _____
 19735 19736 19739 19732

97. For the product $\left(\frac{3}{5}p + \frac{1}{3}\right)\left(\frac{3}{5}p - \frac{1}{3}\right)$ is the value obtained by using the identity is _____
 $\frac{9p^2}{25} + \frac{1}{9}$ $\frac{1}{9} - \frac{9p^2}{25}$ $\frac{9p^2}{25} - \frac{1}{9}$ $\frac{3p^2}{5} - \frac{1}{3}$

98. Using the identity the value obtained from the product 25.4×24.6 is _____
 62.84 624.84 642.84 264.84

99. Using the identity $(a+b)(a-b) = a^2 - b^2$, the value obtained from the product $(2/5 + x)(2/5 - x)$ is _____
 $\frac{16}{625} - x^4$ $\frac{16}{625} + x^4$ $x^4 - \frac{16}{625}$ $x^4 + \frac{16}{625}$

100. If $(x - 3y)(x + 3y)(x^2 + 9y^2)$ is simplified, then the answer is _____
 $x^4 + 81y^4$ $x^4 - 81y^4$ $x^4 - 81y^4$ $x^4 + 81y^4$