



INDIAN SCHOOL NIZWA - WORKSHEET

MATHEMATICS

CH: 12 : Algebraic Expressions

Name: _____

Date: _____

Class: VII Sec: ____

- Q.1 Add $x^2 + 2xy + y^2$ to the sum of $x^2 - 3y^2$ and $2x^2 - y^2 + 9$
- Q.2 If $P = 7x^2 + 5xy - 9y^2$, $Q = 4y^2 - 3x^2 - 6xy$ and $R = -4x^2 + xy + 5y^2$ show that $P + Q + R = 0$
- Q.3 How much is $2a^2 - 7a + 5$ less than $a^3 - 3a^2 + 2a - 3$?
- Q.4 What should be subtracted from $x^2 - xy + y^2 - x + y + 3$ to obtain $-x^2 + 3y^2 - 4xy + 1$?
- Q.5 Fill in the blanks:-
- A number or a combination of numbers (including literal numbers), using the signs of fundamental operations, is called an _____ expression.
 - An expression which contains one term is called a _____.
 - An expression which contains two terms is called a _____ and which contains three terms is called a _____.
 - The terms having same literal factors are called _____ terms, otherwise they are called _____ terms.
- Q.6 Get the algebraic expressions in the following cases using variables, constants and arithmetic operations: -
- The sum of the numbers 6 and x _____
 - 3 more than a number y _____
 - One third of a number x _____
 - One half of the sum of the numbers x and y _____
 - Number y less than a number 7 _____
 - 3 more than twice a number x _____
 - number x multiplied by itself _____
 - 5 more than $\frac{1}{3}$ of number y _____
_____ - $\frac{1}{3}$



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- Q.7 Subtract $3abc - a^2 - b^2$ from $c^2 + 2a^2 - b^2 + abc$
- Q.8 Find the value of $2y^3 - 3y^2 + y - 1$ if $y = -2$
- Q.9 The perimeter of a triangle is $7x - 10$. One of the sides is $x - 6$ and another is $3x + 2$. Find the third side.



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