



Algebraic Expressions Ex 7.1 Q1

Answer :

The monomials, binomials, trinomials and quadrinomials are as follows.

- (i) a^2 is a monomial expression as it contains one term only.
- (ii) $a^2 - b^2$ is a binomial expression as it contains two terms.
- (iii) $x^3 + y^3 + z^3$ is a trinomial expression as it contains three terms.
- (iv) $x^3 + y^3 + z^3 + xyz$ is a quadrinomial expression as it contains four terms.
- (v) $7 + 5 = 12$ is a monomial expression as it contains one term only.
- (vi) $abc + 1$ is a binomial expression as it contains two terms.
- (vii) $3x - 2 + 5 = 3x + 3$ is a binomial expression as it contains two terms.
- (viii) $2x - 3y + 4$ is a trinomial expression as it contains three terms.
- (ix) $xy + yz + zx$ is a trinomial expression as it contains three terms.
- (x) $ax^3 + bx^2 + cx + d$ is a quadrinomial expression as it contains four terms.

Algebraic Expressions Ex 7.1 Q2

Answer :

The terms of each of the given algebraic expressions are as follows.

- (i) $3x$ is the only term of the given algebraic expression.
- (ii) $2x$ and -3 are the terms of the given algebraic expression.
- (iii) $2x^2$ and -7 are the terms of the given algebraic expression.
- (iv) $2x^2, y^2, -3xy$ and 4 are the terms of the given algebraic expression.

Algebraic Expressions Ex 7.1 Q3

Answer :

Like terms	Numerical coefficients
(i) $4xy, -3yx$	$4, -3$
(ii) $\{7a^2bc, -3ca^2b, -\frac{4}{3}cba^2\}$	$\{7, -3, -\frac{4}{3}\}$
$\{-\frac{5}{2}abc^2, \frac{3}{2}abc^2\}$	$\{-\frac{5}{2}, \frac{3}{2}\}$

Algebraic Expressions Ex 7.1 Q4

Answer :

The like terms in the given algebraic expressions are as follows.

- (i) The like terms in the given algebraic expression are a^2 and $-2a^2$.
- (ii) The like terms in the given algebraic expression are $-2yz$ and $\frac{5}{2}zy$.
- (iii) The like terms in the given algebraic expression are $ab^2c, 2acb^2, b^2ac$ and $3cab^2$.

Algebraic Expressions Ex 7.1 Q5

Answer :

The coefficients of x are as follows.

- (i) The numerical coefficient of x is -12 .
- (ii) The numerical coefficient of x is $-7y$.
- (iii) The numerical coefficient of x is yz .
- (iv) The numerical coefficient of x is $-7a$.

Algebraic Expressions Ex 7.1 Q6

Answer :

The coefficients of x^2 are as follows.

- (i) The numerical coefficient of x^2 is -3 .
- (ii) The numerical coefficient of x^2 is $5yz$.
- (iii) The numerical coefficient of x^2 is $\frac{5}{7} z$.
- (iv) The numerical coefficient of x^2 is $-\frac{3}{2} a$.

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