

Exercise 6.1

Q1

Which of the following expressions are polynomials in one variable and which are not? State reasons for your answer:

(i) $3x^2 - 4x + 15$

(ii) $y^2 + 2\sqrt{3}$

(iii) $3\sqrt{x} + \sqrt{5}x$

(iv) $x - \frac{4}{x}$

(v) $x^{12} + y^2 + z^{20}$

Solution

(i) $3x^2 - 4x + 15$ is a polynomial because exponent of variable x is a positive integer.

(ii) $y^2 + 2\sqrt{3}$, this expression is a polynomial in one variable y .

(iii) $3\sqrt{x} + \sqrt{5}x$

Here the exponent of variable x in \sqrt{x} is $\frac{1}{2}$, which is not a positive integer.

So this expression is not a polynomial.

(iv) $x - \frac{4}{x}$ is not a polynomial as the exponent of x in $\frac{4}{x}$ is not a positive integer.

(v) $x^{12} + y^2 + z^{20}$, this expression is a polynomial in 3 variables x , y and z .

Q2

Write the coefficient of x^2 in each of the following:

(i) $17 - 2x + 7x^2$

(ii) $9 - 12x + x^2$

(iii) $\frac{5}{6}x^2 - 3x + 4$

(iv) $\sqrt{3}x - 7$

Solution

(i) The coefficient of x^2 in $17 - 2x + 7x^2$ is 7.

(ii) The coefficient of x^2 in $9 - 12x + x^2$ is 1.

(iii) The coefficient of x^2 in $\frac{5}{6}x^2 - 3x + 4$ is $\frac{5}{6}$.

(iv) The coefficient of x^2 in $\sqrt{3}x - 7$ is 0.

Q3

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