Polynomials

IP:25

Q. No	Polynomials	Number of terms	Degree	Leading Coefficient
1)	$m^3 - 5m^2n^2 + 3n$			
2)	$7t + 4$			
3)	$8 - 2k^6 - k + k^3$			
4)	$pqr + qp - 3 + 4p^8 - q - 2r$			
5)	$2b - a^4b^5 - a^6 + 1 - b^7$			

1)   Which of the following polynomial has the degree 3?

   a) $x^2 + yx + xz$ b) $xy + yzx + xz$ c) $2x + y^2 + x^2$

2)   What is the leading coefficient of the polynomial $3k + 4k^5 + 5k^2$?

   a)   4   b)   3   c)   5

3)   Which of the following polynomial has number of terms is 2?

   a) $7 - m + n$ b) abc c) $p - 3q$

Polynomials

Answer key

Q. No	Polynomials	Number of terms	Degree	Leading Coefficient
1)	$m^3 - 5m^2n^2 + 3n$	**3**	**4**	**−5**
2)	$7t + 4$	**2**	**1**	**7**
3)	$8 - 2k^6 - k + k^3$	**4**	**6**	**−2**
4)	$pqr + qp - 3 + 4p^8 - q - 2r$	**6**	**8**	**4**
5)	$2b - a^4b^5 - a^6 + 1 - b^7$	**5**	**9**	**−1**

1) Which of the following polynomial has the degree 3?

   a) $x^2 + yx + xz$ ✓ b) $xy + yzx + xz$ c) $2x + y^2 + x^2$

2) What is the leading coefficient of the polynomial $3k + 4k^5 + 5k^2$?

   ✓ a)   4   b)   3   c)   5

3) Which of the following polynomial has number of terms is 2?

   a) $7 - m + n$ b)   abc   ✓ c) $p - 3q$