

Name : _____

Analyzing Polynomials

Sheet 1

Answer the following questions.

1) $7y^5 - 3y^3 + 10y - 11y^3 - 19y^2 + 2y$

a) What is the leading coefficient of the given polynomial? _____

b) List down the pairs of like terms for the given polynomial. _____

c) Identify the degree of the polynomial. _____

d) Evaluate the polynomial at $y = 2$. _____

e) What is the sum of the coefficients of the polynomial? _____

2) $-3p^2 - p^2q + 5q - p^2 - 2q$

a) What is the leading coefficient of the given polynomial? _____

b) List down the pairs of like terms for the given polynomial. _____

c) Identify the degree of the polynomial. _____

d) What is the leading coefficient of the given polynomial? _____

e) List down the pairs of like terms for the given polynomial. _____

f) Evaluate the polynomial at $p = -2$ and $q = 1$. _____

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Answer key

Analyzing Polynomials

Sheet 1

Answer the following questions.

1) $7y^5 - 3y^3 + 10y - 11y^3 - 19y^2 + 2y$

a) What is the leading coefficient of the given polynomial? 7

b) List down the pairs of like terms for the given polynomial. $-3y^3$ and $-11y^3$, $10y$ and $2y$

c) Identify the degree of the polynomial. 5

d) Evaluate the polynomial at $y = 2$. 60

e) What is the coefficient of y^2 ? -19

2) $-3p^2 - p^2q + 5q - p^2q$

a) What is the coefficient of p^2 ? -1

b) Identify the degree of the polynomial. 4

c) What is the leading coefficient of the given polynomial? 6

d) List down the pairs of like terms for the given polynomial. $-3p^2$ and $-p^2$, $5q$ and $-2q$

e) Evaluate the polynomial at $p = -2$ and $q = 1$. 12

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