

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

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. \_\_\_\_\_

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

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