

Name : \_\_\_\_\_

## Classifying Polynomials

Classify each polynomial based on degree and the number of terms.

1)  $-p^4 - 6pqr$

\_\_\_\_\_

2)  $9x^3 - 5x^2 + x + 3$

\_\_\_\_\_

3)  $c^3 + 8c - 2c^5 + 5c^4$

\_\_\_\_\_

5)  $12mn^5$

\_\_\_\_\_

7)  $2a^2b^2 + 1 + a^5 - 7a$

\_\_\_\_\_

9)  $-gh^2 + 3g - 4g^2h$

\_\_\_\_\_

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$3 - b^2 + b$

\_\_\_\_\_

11)  $-8s^2 - 6r^2s^2 - 3t^3$

\_\_\_\_\_

12)  $-10 + x^2 + y^2 + z^2 - 2xy$

\_\_\_\_\_

Name : \_\_\_\_\_

## Answer key

Sheet 3

### Classifying Polynomials

Classify each polynomial based on degree and the number of terms.

1)  $-p^4 - 6pqr$

quartic binomial

2)  $9x^3 - 5x^2 + x + 3$

cubic polynomial with 4 terms

3)  $c^3 + 8c - 2c^5 + 5c^4$

quintic polynomial

quintic trinomial

5)  $12mn^5$

sixth degree monomial

quintic binomial

7)  $2a^2b^2 + 1 + a^5 - 7a$

sixth degree polynomial

quartic monomial

9)  $-gh^2 + 3g - 4g^2h$

cubic polynomial with 6 terms

$3x^5 - b^2 + b$

quintic polynomial with 5 terms

11)  $-8s^2 - 6r^2s^2 - 3t^3$

quartic trinomial

12)  $-10 + x^2 + y^2 + z^2 - 2xy$

quadratic polynomial with 5 terms

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