

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

## Classifying Polynomials

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

1)  $3u^2 + 6u + u^3 - 9$

\_\_\_\_\_

2)  $-4p^5 - 8pq^2r - 7p^4q^2$

\_\_\_\_\_

3)  $2st^2u$

\_\_\_\_\_

$-6b^2c + 3ab^3c$

\_\_\_\_\_

5)  $-b - 9 + 3c - 12d$

\_\_\_\_\_

$3xy$

\_\_\_\_\_

7)  $4p^5 - p^4 + 6p^3 - p^2$

\_\_\_\_\_

9)  $6mn + 4m - 7n$

\_\_\_\_\_

$3s - t + st$

\_\_\_\_\_

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11)  $-3b^6 - 9b^2$

\_\_\_\_\_

12)  $-13$

\_\_\_\_\_

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## Answer key

Sheet 2

### Classifying Polynomials

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

1)  $3u^2 + 6u + u^3 - 9$

cubic polynomial with 4 terms

2)  $-4p^5 - 8pq^2r - 7p^4q^2$

sixth degree trinomial

3)  $2st^2u$

quartic

$-6b^2c + 3ab^3c$

polynomial with 5 terms

5)  $-b - 9 + 3c - 12d$

linear polynomial

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$3xy$

polynomial with 4 terms

7)  $4p^5 - p^4 + 6p^3 - p^2$

quintic polynomial

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linear binomial

9)  $6mn + 4m - 7n$

quadratic trinomial

$s - t + st$

cubic polynomial with 5 terms

11)  $-3b^6 - 9b^2$

sixth degree binomial

12)  $-13$

constant monomial