

Math Sheet

Name _____ Score _____ / 10 Teacher _____ Date _____

Naming Polynomials by Type and Degree

Name each polynomial by its number of terms and total degree.

1. $-4m^2p^6y^4 - 2m^3p^2y^6$

Type: _____

Degree: _____

2. $-6x^5y^4 - 7y^5 - 5z^2$

Type: _____

Degree: _____

3. $7n^3z$

Type: _____

Degree: _____

4. $-7m^6xy^2 + 4m^2y^7 + 9mx^2y^4 - 7m^3 - 2m^2$

Type: _____

Degree: _____

5. $-6x^4y^5z^4 - 6xy^6z^6 - 5x^6z^6 - 7y^2$

Type: _____

Degree: _____

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Name each polynomial by its number of terms and total degree.

6. $-6m^7n^4y^7 + m^7n^2y^6 + 7m^6n + 9m^4n^3 - 2n^7 + 9n^4y^2$

Type: _____

Degree: _____

7. $-7n^4p^3x^7 + 5n^3p^4 + 3n^2 - 2x$

Type: _____

Degree: _____

8. $-9m^3n^5x^6 - 6m^5n^7x + 9m^2n^5x^6 + 8m^6 - 8m^3n^2x - 4n$

Type: _____

Degree: _____

9. $8n^5x^2z^4 + 5z^2$

Type: _____

Degree: _____

10. $6m^2p^4y^6 + 7p^4y^4 - 7y$

Type: _____

Degree: _____

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Naming Polynomials by Type and Degree

Answer key

Name each polynomial by its number of terms and total degree.

1. $-4m^2p^6y^4 - 2m^3p^2y^6$
2 terms; Type: binomial
Term degrees: 12, 11
Degree: $\max(12, 11) = 12$
2. $-6x^5y^4 - 7y^5 - 5z^2$
3 terms; Type: trinomial
Term degrees: 9, 5, 2
Degree: $\max(9, 5, 2) = 9$
3. $7n^3z$
1 term; Type: monomial
Term degrees: 4
Degree: $\max(4) = 4$
4. $-7m^6xy^2 + 4m^2y^7 + 9mx^2y^4 - 7m^3 - 2m^2$
5 terms; Type: polynomial
Term degrees: 9, 9, 7, 3, 2
Degree: $\max(9, 9, 7, 3, 2) = 9$
5. $-6x^4y^5z^4 - 6xy^6z^6 - 5x^6z^6 - 7y^2$
4 terms; Type: polynomial
Term degrees: 13, 13, 12, 2
Degree: $\max(13, 13, 12, 2) = 13$
6. $-6m^7n^4y^7 + m^7n^2y^6 + 7m^6n + 9m^4n^3 - 2n^7 + 9n^4y^2$
6 terms; Type: polynomial
Term degrees: 18, 15, 7, 7, 7, 6
Degree: $\max(18, 15, 7, 7, 7, 6) = 18$
7. $-7n^4p^3x^7 + 5n^3p^4 + 3n^2 - 2x$
4 terms; Type: polynomial
Term degrees: 14, 7, 2, 1
Degree: $\max(14, 7, 2, 1) = 14$
8. $-9m^3n^5x^6 - 6m^5n^7x + 9m^2n^5x^6 + 8m^6 - 8m^3n^2x - 4n$
6 terms; Type: polynomial
Term degrees: 14, 13, 13, 6, 6, 1
Degree: $\max(14, 13, 13, 6, 6, 1) = 14$
9. $8n^5x^2z^4 + 5z^2$
2 terms; Type: binomial
Term degrees: 11, 2
Degree: $\max(11, 2) = 11$
10. $6m^2p^4y^6 + 7p^4y^4 - 7y$
3 terms; Type: trinomial
Term degrees: 12, 8, 1
Degree: $\max(12, 8, 1) = 12$