

Name : _____

Classifying Polynomials

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

1) $-xy - 7y^2z^3 + 2x^3 - 5xy^2z$

2) $6u^3w - u^2v$

3) $2m^6 - 9m^3 + 4m^2$

$+ 2qr - 4$

5) $5uv + uv^2w - 8vw$

7) $-h - 9$

$+ 8$

9) $\sqrt{5}$

$bc - 5cd + 1$

11) $-a^3 - 2ab + 4a^2 - a + 14b$

12) $7rs^2t - t^5 - 6s^2$

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Answer key

Sheet 1

Classifying Polynomials

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

1) $-xy - 7y^2z^3 + 2x^3 - 5xy^2z$

quintic polynomial with 4 terms

2) $6u^3w - u^2v$

quartic binomial

3) $2m^6 - 9m^3 + 4m^2$

sixth degree

$+ 2qr - 4$

polynomial with 5 terms

5) $5uv + uv^2w - 8vw$

quartic polynomial

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degree monomial

7) $-h - 9$

linear

$+ 8$

polynomial with 4 terms

9) $\sqrt{5}$

constant monomial

$abc - 5cd + 1$

quadratic polynomial with 6 terms

11) $-a^3 - 2ab + 4a^2 - a + 14b$

cubic polynomial with 5 terms

12) $7rs^2t - t^5 - 6s^2$

quintic trinomial

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