Name : _____

Grade 7 : _____ Date : _____

Activity 4: Algebraic Expressions and Polynomials

A. Matching Type. Match the definition in column A with the term being defined in Column B by drawing a line.

Column A	Column B
1. A term with no variables	• Term
2. Numbers attached to variables in a term	• Constant
3. A part of an algebraic expression separated by the "+" or "-" signs	• Monomial
4. A polynomial with two terms	• Binomial
5. Terms with the same variable(s) of the same degree.	• Coefficient
	• Like terms
	• Like coefficients

B. Tell whether the algebraic expression is a polynomial or not. Choose your answer on the right.

6. $-7x + y$	o POLYNOMIAL	o NOT POLYNOMIAL
7. $\frac{4x}{y}$	o POLYNOMIAL	o NOT POLYNOMIAL
8. $8mn^{-1}$	o POLYNOMIAL	o NOT POLYNOMIAL
9. $5(x-3)$	o POLYNOMIAL	o NOT POLYNOMIAL
10. $\sqrt{6m^2} + 1$	o POLYNOMIAL	o NOT POLYNOMIAL
11. $x^2 - 5xy + 7y^3$	o POLYNOMIAL	o NOT POLYNOMIAL
12. $\sqrt{x^2} + 1$	o POLYNOMIAL	o NOT POLYNOMIAL
13. $\frac{a+6}{7}$	o POLYNOMIAL	o NOT POLYNOMIAL
14. $9a^3 - 3a^2 + 2a - 5$	o POLYNOMIAL	o NOT POLYNOMIAL
15. $x^{\frac{1}{4}}y + 3$	o POLYNOMIAL	o NOT POLYNOMIAL

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C. Drag and drop the given terms at the right to the boxes to arrange the polynomials in standard form.

16. [ ] [ ] [ ] [ ] $-6x^3 \quad +1 \quad -3x \quad +5x^2$

17. [ ] [ ] [ ] [ ] $x^6 \quad -2x \quad -7 \quad +4x^3$

18. [ ] [ ] [ ] [ ] $+2x^3y \quad -x^5 \quad +3xy^2 \quad -x^4y^3$

D. Give the degree of each polynomial. Write your answer on the space provided.

19. 5 _____ *degree*

20. $y^3 - 2y^2 + y - 3$ _____ *degree*

21. 4z _____ *degree*

22. $x^2 - 5x + 1$ _____ *degree*

23. $7x^4y^2 - 2x^3y + 3$ _____ *degree*

24. $8x^5 + 3x^3 + x - 5$ _____ *degree*

25. $3x^4 + x^2y + xy + 2$ _____ *degree*

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