Grade 7: Date:

## **Activity 4: Algebraic Expressions and Polynomials**

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

## Column A

- A term with no variables
- 2. Numbers attached to variables in a term
- 3. A part of an algebraic expression separated by the "+" or "-" signs
- 4. A polynomial with two terms
- 5. Terms with the same variable(s) of the same degree.

## Column B

- Term
- Constant
- Monomial
- Binomial
- Coefficient
- Like terms
- Like coefficients
- B. Tell whether the algebraic expression is a polynomial or not. Choose your answer on the right.

6. 
$$-7x + y$$

7. 
$$\frac{4x}{y}$$

8. 
$$8mn^{-1}$$

9. 
$$5(x-3)$$

10. 
$$\sqrt{6m^2} + 1$$

11. 
$$x^2 - 5xy + 7y^3$$

12. 
$$\sqrt{x^2} + 1$$

13. 
$$\frac{a+6}{7}$$

14. 
$$9a^3 - 3a^2 + 2a - 5$$
 o POLYNOMIAL

15. 
$$x^{\frac{1}{4}}y + 3$$

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## **Activity 4: Algebraic Expressions and Polynomials**

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

16. 
$$-6x^3 + 1 - 3x + 5x^2$$

17. 
$$x^6 - 2x - 7 + 4x^3$$

18. 
$$+2x^3y^2 - x^5 + 3xy^2 - x^4y^3$$

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

20. 
$$y^3 - 2y^2 + y - 3$$
 \_\_\_\_\_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