

Answer the following questions.

1) What is a monomial?

2) How do you find the degree of a monomial?

3) What is a polynomial?

4) How do you find the degree of a polynomial?

5) What do you do to put a polynomial in standard form?

6) What is a leading coefficient?

Find the degree of each monomial, then determine the degree of the polynomial.

7) $24xy^2 - xy^3 + x^2$

8) $5a^2 + 2b^2 + 1$

Which of the following is not a monomial? Write your choice here. _____

9) a. 5

c. $4x - 5y$ b. x^6y^7 d. $7a^2b^2c^3$ **Write an example of a polynomial in standard form.**

10) _____

Write an example of a binomial.

11) _____

Write an example of a trinomial.

12) _____

Answer the following questions.

1) What is a monomial?

A monomial is: a number, a variable or the product of numbers and variables with whole number exponents

2) How do you find the degree of a monomial?

To find the degree of a monomial you add the exponents of the variables.

3) What is a polynomial?

A polynomial is a monomial or the sum or difference of monomials.

4) How do you find the degree of a polynomial?

Find the degree of each term. The greatest degree is the degree of the polynomial.

5) What do you do to put a polynomial in standard form?

Put the terms in decending order according to the exponents of a specified variable

6) What is a leading coefficient?

The first coefficient of a polynomial in standard form.

Find the degree of each monomial, then determine the degree of the polynomial.

7) $24xy^2 - xy^3 + x^2$

8) $5a^2 + 2b^2 + 1$

$24xy^2$ deg 3, xy^3 deg 4, x^2 deg 2 - The polynomial is a deg 4
 $5a^2$ deg 2, $2b^2$ deg 2, 1 deg 0 - The polynomial is a degree 2

Which of the following is not a monomial? Write your choice here. _____

9) a. 5

c. $4x - 5y$ b. x^6y^7 d. $7a^2b^2c^3$ c. $4x - 5y$ **Write an example of a polynomial in standard form.**

10) _____

 $5x^5 + 3x^4 - 2x^2 - 1$ **Write an example of a binomial.**

11) _____

 $5x - 6y$ **Write an example of a trinomial.**

12) _____

 $ax^2 + bx + c$