9-1 Pre-Test

Date_____ Period____

Name each polynomial by degree and number of terms. Write in STANDARD FORM, if not already.

1) $-2p^4$

A) fourth degree monomial
B) fourth degree binomial
C) linear polynomial with four terms
D) cubic monomial

2) $-9x^4$

A) constant monomial
B) fourth degree monomial
C) linear polynomial with four terms
D) linear monomial

3) -4

A) linear polynomial with 0 terms
B) constant monomial
C) quadratic monomial
D) constant trinomial

4) $-4 - 9k$

A) fourth degree trinomial
B) linear binomial
C) quadratic monomial
D) linear monomial

5) $-6x^2 - 1 - 6x$

A) fourth degree trinomial
B) constant trinomial
C) cubic binomial
D) quadratic trinomial

6) 10

A) constant monomial
B) quadratic binomial
C) linear monomial
D) linear polynomial with 0 terms

7) $3p^2 + p$

A) cubic trinomial
B) quadratic binomial
C) fifth degree binomial
D) constant binomial

8) $-5n^3$

A) cubic monomial
B) fourth degree monomial
C) linear monomial
D) linear trinomial

9) $10n^3$

A) cubic monomial
B) linear trinomial
C) fifth degree monomial
D) fifth degree trinomial

10) $-b^3 - b + 5$

A) fifth degree trinomial
B) constant binomial
C) constant trinomial
D) cubic trinomial

Simplify each expression.

11) $(-6x^2 - 5x^4 + 12x) - (x - 6x^2 + 10x^4)$

A) $-15x^4 + 11x$
B) $-15x^4 - 3x + 4x^2$
C) $-15x^4 - 3x$
D) $-15x^4 + 7x$

12) $(-3p - 10 + p^3) + (-12p^3 + 9p + 5p^2)$

A) $-11p^3 + 5p^2 + 8p - 12$
B) $-11p^3 + 5p^2 + 6p - 10$
C) $-4p^3 + 5p^2 + 8p - 12$
D) $-11p^3 + 5p^2 + 8p - 10$

13) $(7r^3 - 10r^2 - 13) - (11 + 10r^3 + 14r^2)$

A) $6r^3 - 24r^2 - 24$
B) $6r^3 - 35r^2 - 24$
C) $-3r^3 - 24r^2 - 24$
D) $6r^3 - 35r^2 - 30$

14) $(12x^2 + 4x - 2x^4) - (-2x - 3x^2 + x^4)$

A) $x^4 + 15x^2 + 6x$
B) $-3x^4 + 15x^2 + 6x$
C) $8x^4 + 15x^2 + 3x$
D) $x^4 + 15x^2 + 3x$

15) $(13x^3 - 5x^2 - 5) + (-2x^3 + 12 - 14x^2)$

A) $14x^3 - 19x^2 + 2$
B) $14x^3 - 19x^2 + 7$
C) $14x^3 - 19x^2$
D) $11x^3 - 19x^2 + 7$

16) $(14 + 7p^2 + 8p) - (4 - 10p^2 + 11p^4)$

A) $2p^4 + 17p^2 + 8p + 10$
B) $-10p^4 + 17p^2 + 8p + 10$
C) $-10p^4 + 17p^2 + 22p + 10$
D) $-11p^4 + 17p^2 + 8p + 10$

17) $(-13n^3 - 2n + 5n^4) - (-10n^4 - n - 3n^3)$

A) $15n^4 - 10n^3 - 21n$
B) $15n^4 - 10n^3 - n$
C) $15n^4 - 10n^3 - 9n$
D) $15n^4 + n^3 - 21n$

18) $(-5x^4 - 4 - 11x) + (-9x + 12x^4 + 3)$

A) $2x^4 - 20x - 10$
B) $7x^4 - 20x - 1$
C) $7x^4 - 20x - 10$
D) $2x^4 - 20x - 17$

19) $(7a + 11a^3 + 13a^2) + (-9a^4 - 3a^3 - 13a)$

A) $-17a^4 + 8a^3 + 16a^2 - 5a$

B) $-17a^4 + 8a^3 + 16a^2 - 6a$

C) $-17a^4 + 8a^3 + 13a^2 - 6a$

D) $-9a^4 + 8a^3 + 13a^2 - 6a$

20) $(9k^4 + 3k + 13k^2) + (-k^4 - 4k - 4k^2)$

A) $8k^4 + 9k^2 - 11k$

B) $-k^4 + 9k^2 - 11k$

C) $8k^4 + 9k^2 + 2k$

D) $8k^4 + 9k^2 - k$