

9-1 Pre-Test

Date _____ Period _____

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

1) $-7x^3 + 5x$

- A) fourth degree binomial
- B) quadratic trinomial
- C) cubic binomial
- D) cubic monomial

2) -2

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

3) $-4k$

- A) linear monomial
- B) cubic monomial
- C) fifth degree monomial
- D) linear binomial

4) $7v^5 + 2v^3 + 5v^4$

- A) linear trinomial
- B) fifth degree monomial
- C) cubic polynomial with five terms
- D) fifth degree trinomial

5) $7 + 8m^2 - 10m^5$

- A) quadratic monomial
- B) fifth degree binomial
- C) cubic polynomial with five terms
- D) fifth degree trinomial

6) $2n^2 - 5n - 4n^3 + 5n^5$

- A) fourth degree polynomial with five terms
- B) fifth degree binomial
- C) linear polynomial with four terms
- D) fifth degree polynomial with four terms

7) $-7k - 3$

- A) constant trinomial
- B) linear monomial
- C) fourth degree monomial
- D) linear binomial

8) $9x - 7$

- A) quadratic monomial
- B) fifth degree trinomial
- C) linear binomial
- D) cubic binomial

9) $-3v^3$

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

10) $10 + 4p^2 + p^3 + 8p$

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

Simplify each expression.

11) $(5m + 8 + 8m^3) - (-2 - 12m - 7m^3)$

- A) $15m^3 + 31m + 23$
- B) $15m^3 + 17m + 10$
- C) $15m^3 + 31m + 10$
- D) $15m^3 + 31m + 26$

12) $(4n^3 - 9n^4 - 2n) - (11n - 11n^4 + 5n^3)$

- A) $-6n^4 - 14n^3 - 11n$
- B) $2n^4 - 14n^3 - 13n$
- C) $2n^4 - n^3 - 13n$
- D) $2n^4 - 14n^3 - 11n$

13) $(7p^4 - 4p^2 - 10) + (8 - 9p^4 - 10p^3)$

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

14) $(-7v^2 - 5v^4 + 3v) + (-7v^4 - 11v^2 - 4)$

- A) $-12v^4 - 9v^2 + 3v + 5$
- B) $-12v^4 - 16v^2 + 3v + 5$
- C) $-12v^4 - 18v^2 + 3v - 4$
- D) $-12v^4 - 16v^2 + 3v - 4$

15) $(-10n^3 + 11n^2 - 9) - (11 - 6n^2 + 3n^4)$

- A) $-3n^4 - 10n^3 + 17n^2 - 20$
- B) $-5n^4 - 4n^3 + 17n^2 - 20$
- C) $-15n^4 - 4n^3 + 17n^2 - 20$
- D) $-5n^4 - 10n^3 + 17n^2 - 20$

16) $(14 + 12x^3 - 4x^2) + (5x^3 - 10 + 9x^2)$

- A) $23x^3 + 5x^2 + 16$
- B) $17x^3 + 5x^2 + 4$
- C) $17x^3 + 5x^2 + 16$
- D) $32x^3 + 5x^2 + 16$

17) $(3 - 3x + 6x^4) - (x^2 + 9x^4 - 13)$

- A) $-2x^4 + 11x^2 - 3x + 16$
- B) $-3x^4 - x^2 - 3x + 16$
- C) $11x^4 + 11x^2 - 3x + 16$
- D) $11x^4 - x^2 - 3x + 16$

18) $(14k + k^4 + 11k^2) + (3k + 9k^4 + 5k^2)$

- A) $10k^4 + 16k^2 + 17k$
- B) $16k^4 + 16k^2 + 19k$
- C) $16k^4 + 16k^2 + 12k$
- D) $10k^4 + 16k^2 + 12k$

$$19) (-2b^4 - 14 - 2b^2) + (-11b^4 - 6 - 12b^2)$$

$$A) -13b^4 - 13b^2 - 22$$

$$B) -13b^4 - 9b^2 - 22$$

$$C) -13b^4 - 14b^2 - 20$$

$$D) -13b^4 - 14b^2 - 22$$

$$20) (3n^3 + 6n + 9) + (-14n^3 + 11n - 1)$$

$$A) -11n^3 + 17n + 8$$

$$B) -11n^3 + 17n + 19 + 2n^4$$

$$C) -11n^3 + 17n + 8 + 9n^4$$

$$D) -11n^3 + 17n + 8 + 2n^4$$