

9-1 Pre-Test

Date _____ Period _____

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

1) -9

- A) constant monomial
- B) fourth degree monomial
- C) linear polynomial with 0 terms
- D) fifth degree monomial

2) $3 + 5n^2 - 7n^5 - 9n^3$

- A) fifth degree binomial
- B) quadratic polynomial with four terms
- C) fifth degree polynomial with four terms
- D) fifth degree trinomial

3) $-2n^5$

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

4) $10b^2 - 4b^5$

- A) quadratic polynomial with five terms
- B) fifth degree binomial
- C) constant trinomial
- D) linear binomial

5) -1

- A) constant monomial
- B) constant trinomial
- C) linear polynomial with 0 terms
- D) fifth degree binomial

6) $-8v^5$

- A) fifth degree monomial
- B) fifth degree binomial
- C) linear polynomial with five terms
- D) constant monomial

7) $-6m^3 + 6m^4$

- A) fourth degree binomial
- B) constant monomial
- C) fourth degree monomial
- D) quadratic binomial

8) 1

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

9) $-8x^5 + 6x$

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

10) $5a + 10a^2$

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

Simplify each expression.

11) $(9n^2 + 13 - 2n^3) - (-n^3 + 10 - 8n^2)$

- A) $-n^3 + 17n^2 + 3$
- B) $-n^3 + 8n^2 - 10$
- C) $-n^3 + 17n^2 - 10$
- D) $2n^3 + 8n^2 - 10$

12) $(-11r + 13r^2 - 3) - (12r^2 + 11r - 10)$

- A) $7r^2 - 22r - 6$
- B) $-3r^2 - 22r + 7$
- C) $r^2 - 22r + 7$
- D) $-3r^2 - 22r - 6$

13) $(5x^4 - 9x^3 - 2) + (-13x^4 - 11 + x^3)$

- A) $-19x^4 - 17x^3 - 13$
- B) $-8x^4 - 8x^3 - 13$
- C) $-21x^4 - 17x^3 - 13$
- D) $-8x^4 - 17x^3 - 13$

14) $(9v + 4v^3 + 10v^2) + (4v^2 - 12v + 3v^3)$

- A) $7v^3 + 14v^2 - 24v$
- B) $7v^3 + 14v^2 - 3v$
- C) $7v^3 + 14v^2 - 11v$
- D) $7v^3 + 22v^2 - 24v$

15) $(3p^2 - 9p^4 - 6p^3) - (-7p^2 - 2p^4 + 12p^3)$

- A) $-3p^4 - 6p^3 + 10p^2$
- B) $-3p^4 - 14p^3 + 10p^2$
- C) $-7p^4 - 6p^3 + 10p^2$
- D) $-7p^4 - 18p^3 + 10p^2$

16) $(8n + 14n^3 + 1) - (-8n^3 - 8 + 2n^2)$

- A) $22n^3 - 2n^2 + 8n - 1$
- B) $22n^3 - 2n^2 + 8n + 9$
- C) $22n^3 - 15n^2 + 8n - 8$
- D) $22n^3 - 15n^2 + 8n - 1$

17) $(-11r^2 + 2r - 7) + (-14r^2 + 14 - 13r)$

- A) $-25r^2 - 11r + 8$
- B) $-25r^2 - 11r + 7$
- C) $-38r^2 - 17r + 8$
- D) $-38r^2 - 11r + 8$

18) $(-8k^3 + 14k + 4k^4) - (-12k + 9k^3 - 11)$

- A) $4k^4 - 17k^3 + 26k + 1$
- B) $13k^4 - 17k^3 + 26k + 1$
- C) $4k^4 - 17k^3 + 26k + 11$
- D) $13k^4 - 17k^3 + 26k - 13$

$$19) (12n^3 - 11n + 4n^4) + (14n^4 + 5n^3 + 8)$$

$$A) 18n^4 + 22n^3 - 11n + 8$$

$$B) 18n^4 + 17n^3 - 11n + 8$$

$$C) 18n^4 + 11n^3 - 11n + 8$$

$$D) 18n^4 + 11n^3 - 11n + 9$$

$$20) (-r + 13 + 14r^2) + (12r + 5 + 14r^2)$$

$$A) 28r^2 + 9r + 18$$

$$B) 28r^2 + 15r + 18$$

$$C) 28r^2 + 11r + 18$$

$$D) 42r^2 + 15r + 18$$