# 9-1 Pre-Test

Date_____ Period____

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

1) 5

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

2) $10x^5$

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

3) $8r$

A) linear monomial
B) linear trinomial
C) quadratic monomial
D) constant monomial

4) $n$

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

5) 7

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

6) $-m + 10m^2 - 4m^3 - 1$

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

7) $2v^4$

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

8) $-6n^2 + 10n^5 + 8n^3 + 2$

A) fourth degree polynomial with five terms
B) fifth degree monomial
C) constant trinomial
D) fifth degree polynomial with four terms

  

9) $-2$

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

10) $3x^4$

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

**Simplify each expression.**

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

A) $7b^2 + b - 13$
B) $19b^2 + b - 13$
C) $7b^2 + 10b - 13$
D) $19b^2 + 2b - 13$

12) $(13m - 13m^2 - 9) + (-4 - 10m - 9m^2)$

A) $-22m^2 + 4m - 22$
B) $-22m^2 + 6m - 13$
C) $-22m^2 + 3m - 13$
D) $-22m^2 + 4m - 13$

13) $(-3n^4 - 3 - 14n) - (11 - 6n^4 - 5n)$

A) $3n^4 - 9n - 14$
B) $-11n^4 - 9n - 14$
C) $-11n^4 - 14n - 14$
D) $-7n^4 - 14n - 14$

14) $(8 + 12m - 2m^4) - (5m - 5m^4 + 7)$

A) $3m^4 + 7m + 1$
B) $3m^4 + 7m + 13$
C) $-m^4 + 7m + 5$
D) $3m^4 + 7m + 5$

15) $(-5r^3 + 12r^4 - 7r) - (10r^3 + 14r + 5r^4)$

A) $7r^4 - 15r^3 - 21r$
B) $7r^4 - 20r^3 - 29r + 11r^2$
C) $7r^4 - 20r^3 - 29r$
D) $7r^4 - 20r^3 - 21r$

16) $(-12 + 6m + 7m^2) - (3 - 12m - 14m^3)$

A) $14m^3 + 9m^2 + 18m - 15$
B) $14m^3 + 18m^2 + 13m - 15$
C) $14m^3 + 7m^2 + 13m - 15$
D) $14m^3 + 7m^2 + 18m - 15$

17) $(12b^2 - 8b^3 - 10b) - (14b - 12b^3 - 8b^2)$

A) $4b^3 + 20b^2 - 31b$
B) $4b^3 + 16b^2 - 31b$
C) $4b^3 + 20b^2 - 32b$
D) $4b^3 + 20b^2 - 24b$

18) $(-13x^4 - 5 + x^2) - (6x^4 + 13 + 8x^2)$

A) $-19x^4 - 7x^2 - 18$
B) $-15x^4 - 17x^2 - 4$
C) $-15x^4 - 17x^2 - 18$
D) $-15x^4 - 7x^2 - 18$

19) $(2x + x^3 - 5) + (-4x - 8x^3 + 7)$

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

20) $(2b^3 + 12b^2 - 2b^4) - (5b^4 + 8b^2 - 6b^3)$

A) $b^4 + 8b^3 + 4b^2$
B) $b^4 + 11b^3 + 14b^2$
C) $b^4 + 8b^3 + 14b^2$
D) $-7b^4 + 8b^3 + 4b^2$