

Unit 7 Quiz 1 Review

Date _____ Period _____

Name each polynomial by degree and number of terms.

1) $-8x$

- A) linear binomial
- B) constant trinomial
- C) quartic trinomial
- D) linear monomial

2) $2n^2 + 2n$

- A) quadratic trinomial
- B) quadratic binomial
- C) quintic trinomial
- D) cubic binomial

3) $-3v^5 + 6v$

- A) quadratic binomial
- B) linear monomial
- C) quintic binomial
- D) constant binomial

4) $2m + 6$

- A) quartic binomial
- B) linear trinomial
- C) quadratic monomial
- D) linear binomial

Simplify each expression.

5) $(3x^2 - 8) + (6x^2 - 5 + 4x^4)$

- A) $4x^4 + 9x^2 - 13$
- B) $2x^4 + 10x^2 - 18$
- C) $4x^4 + 10x^2 - 18$
- D) $4x^4 + 10x^2 - 13$

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

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

7) $(-x - 6x^2 - 3x^3) + (4x^4 + 5x^3 + 4x^2)$

- A) $2x^3 - 8x^2 - 5x$
- B) $4x^4 + 2x^3 - 2x^2 - x$
- C) $4x^4 + 2x^3 - 2x^2 - 5x$
- D) $4x^4 + 2x^3 - 8x^2 - 5x$

8) $(3n^2 + 6n + 4n^3) - (8n^4 + 5n + 5n^2)$

- A) $-8n^4 - n^3 + 6n^2 + 7n$
- B) $-8n^4 - n^3 + 6n^2 + n$
- C) $-8n^4 - n^3 - 2n^2 + n$
- D) $-8n^4 + 4n^3 - 2n^2 + n$

Find each product.

9) $(2p + 6)(4p + 4)$

A) $8p^2 + 32p + 24$

B) $p^2 - 7p + 12$

C) $8p^2 - 16p - 24$

D) $p^2 + p - 12$

10) $(5x - 7)(8x - 1)$

A) $40x^2 - 61x + 7$

B) $24x^2 + 44x + 20$

C) $24x^2 - 20$

D) $24x^2 + 4x - 20$

11) $(2k - 7)(4k + 6)$

A) $8k^2 - 16k - 42$

B) $8k^2 + 40k + 42$

C) $8k^2 - 40k + 42$

D) $8k^2 - 42$

12) $(3r + 2)(4r^2 + 4r - 7)$

A) $24r^3 - 20r^2 + 34r - 10$

B) $35r^3 - 72r^2 + 50r - 12$

C) $12r^3 + 20r^2 - 13r - 14$

D) $4r^3 + 30r^2 + 40r - 56$