

Unit 2 Quiz #1 Review

Date _____ Period _____

Name each polynomial by degree and number of terms. (You should have 2 names for each.)

1) -10

2) $4r^2 - r + 3$

3) $-8p^4 - 5 + 2p$

4) $-9 - 4a$

5) $6n^3 + 10n$

6) x^2

Simplify each expression.

7) $(6k^2 + 8k) + (-2 + 7k - 8k^2)$

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

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

10) $(-5r^2 - 4r^4 - 7r) - (-7r^2 + 8r)$

Find each product.

11) $-3k^3(5k^2 + k + 8)$

12) $(8v + 5)(-3v + 3)$

13) $(-6x + 3)(-2x^2 + 5x + 3)$

14) $(3 - 7n)^2$

Simplify using Pascal's Triangle.

15) $(p - 4)^5$

16) $(x + 6)^3$

17) $(3n + 5)^4$

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Date _____ Period _____

Name each polynomial by degree and number of terms. (You should have 2 names for each.)

1) -10

constant monomial

2) $4r^2 - r + 3$

quadratic trinomial

3) $-8p^4 - 5 + 2p$

quartic trinomial

4) $-9 - 4a$

linear binomial

5) $6n^3 + 10n$

cubic binomial

6) x^2

quadratic monomial

Simplify each expression.

7) $(6k^2 + 8k) + (-2 + 7k - 8k^2)$

$-2k^2 + 15k - 2$

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

$-16n^4 - 3n^2$

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

$-3k^4 + 2k^3 - 3k^2$

10) $(-5r^2 - 4r^4 - 7r) - (-7r^2 + 8r)$

$-4r^4 + 2r^2 - 15r$

Find each product.

11) $-3k^3(5k^2 + k + 8)$

$-15k^5 - 3k^4 - 24k^3$

12) $(8v + 5)(-3v + 3)$

$-24v^2 + 9v + 15$

13) $(-6x + 3)(-2x^2 + 5x + 3)$

$12x^3 - 36x^2 - 3x + 9$

14) $(3 - 7n)^2$

$9 - 42n + 49n^2$

Simplify using Pascal's Triangle.

15) $(p - 4)^5$

$9p^2 - 48p + 64$

16) $(x + 6)^3$

$x^2 + 12x + 36$

17) $(3n + 5)^4$

$9n^2 + 24n + 16$