

Math 6 - Unit 3: Expressions

Combining Like Terms HOMEWORK #2

Name: _____

Class Period: 1 2 3 4 Date: _____

1) $8x^2 + y + 9x^2 + y^2 + 5y$

(Handwritten: 8x² and 9x² are marked with red asterisks and blue checkmarks; y and 5y are marked with red asterisks and green circles; y² is marked with a green circle)

$17x^2 + 6y + y^2$

$8x^2 + 9x^2 + y + 5y + y^2$

3) $4b^2 + 3b^3 + 6a + 2b^3 - 3b^2 + 2a$

(Handwritten: 4b² and 3b³ are marked with red asterisks and blue checkmarks; 6a and 2a are marked with red asterisks and green circles; 2b³ and -3b² are marked with blue checkmarks and red asterisks)

$4b^2 - 3b^2 + 3b^3 + 2b^3 + 6a + 2a$

$7b^2 + 5b^3 + 8a$

5) $5x + 8y + 4x$

(Handwritten: 5x and 4x are marked with red asterisks and blue checkmarks; 8y is marked with a red asterisk)

$5x + 4x + 8y$

$9x + 8y$

7) $27x - 12x$

(Handwritten: 27x and -12x are marked with red asterisks)

$15x$

9) $5x^2 + y - 3x^2$

(Handwritten: 5x² and -3x² are marked with red asterisks and blue checkmarks; y is marked with a red asterisk)

$5x^2 - 3x^2 + y$

$2x^2 + y$

11) $e + e + e + e + e$

(Handwritten: each e is marked with a red asterisk)

$5e$

13) $11p^4 + 19 + 2p^4$

(Handwritten: 11p⁴ and 2p⁴ are marked with red asterisks and blue checkmarks; 19 is marked with a red asterisk)

$11p^4 + 2p^4 + 19$

$13p^4 + 19$

15) $4r + 3 + 5 + 7r + 10 - 11r - 18$

(Handwritten: 4r and 7r are marked with red asterisks and blue checkmarks; 3, 5, 10, and -18 are marked with red asterisks and blue checkmarks; -11r is marked with a red asterisk)

$4r + 7r - 11r + 3 + 5 + 10 - 18$

0

17) $3t + 4u + 6t$

(Handwritten: 3t and 6t are marked with red asterisks and blue checkmarks; 4u is marked with a red asterisk)

$3t + 6t + 4u$

$9t + 4u$

19) $20f + 6f^2 - 10f + 13f^2$

(Handwritten: 20f and -10f are marked with red asterisks and blue checkmarks; 6f² and 13f² are marked with red asterisks and blue checkmarks)

$20f - 10f + 6f^2 + 13f^2$

$10f + 19f^2$

2) $8n^5 + 3m - 8n^2 - m - 4n^5 + 3n^2$

4) $3 + r + 8r^2 - 2 + 7q + q^2 + 5 + 2r^2 + 2r$

6) $6n + 6x + 4n$

8) $6b + 5a - 4b + 3a$

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

12) $14a^2 + 2b - 7a^2 + 7 + a^2$

14) $4x + 3x + 2x$

16) $7h^5 + 8h^4 + 6h^3 + 5h^2$

18) $4x^{10} + 5x^{10} - 3x + 7y - 3y$

20) $a + b + c + d + 2a + 3b + 4c + 5d$