

NAME _____

DATE _____

Module 11 Simplifying Algebraic Expressions
with Polynomials**Lesson 3** Adding and Subtracting Polynomials**additional
practice****Find each sum or difference either horizontally or vertically. Write answers in simplest form.**

1. $(3y + 2) + (5y - 6)$

2. $(4m - 2) - (m + 2)$

3. $(b^2 + 2b + 3) - (-b^2 - 2b - 3)$

4. $(d^5 + 7) + (d^3 + 1)$

5. $(2k^2 - 15k + 3) - (-12k^2 + 4k - 1)$

6. $(3m^2 + 4m - 1) + (5m^2 - 4m + 1)$

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

8. $(7p + 3) - (5p^2 + 2p - 1)$

9. $(5r^5 + 2r^3 - 9r) + (-9r^4 - 5r^2 + 6)$

10. $(8t^2 + 7t - 1) + (15t^2 - 5t + 6)$

11.
$$\begin{array}{r} -9p^5r^3 + 5pr^3 + 12p^5 \\ + 5p^5r^3 - 6pr^3 + 8p^4 \end{array}$$

12.
$$\begin{array}{r} 5ab^2 + 4a^2b \\ - (12ab^2 - 5a^2b - 3) \end{array}$$

13.
$$\begin{array}{r} -x^2y^2 + 5x^2y - 9xy^2 \\ + 7x^2y^2 + 2x^2y - 3xy^2 \end{array}$$

14.
$$\begin{array}{r} 4g^2h^2 - 5gh + 9 \\ - (-2g^2h^2 + 3gh - 5) \end{array}$$

15. $(-9r^2 + 12rs + 5s^2) + (20r^2 - 3rs - 12s^2)$ _____

16. $(6x^2 - 13xy + 2y^2) - (8x^2 + 4xy - 5y^2)$ _____

17. $(12x - 9y) - (14xy + 3x - 9)$ _____

18. $(6k^4m^3 - 5k^3m^4 + 12k^2m^2) + (-9k^2m^2 - 2k^3m^4)$ _____

19. $\left(\frac{3}{4}x^2 - \frac{1}{2}xy + \frac{2}{3}y^2\right) + \left(\frac{2}{5}x^2 - \frac{3}{4}xy - \frac{1}{4}y^2\right)$ _____

20. $(-5.7r^2 - 0.12rs + 3.6s^2) - (-2.4r^2 + 0.13rs - 4.7s^2)$ _____

