

Name: _____

Period: _____ Date: _____

Simplifying Variable Expressions – Combining Like Terms **Answers**

Section I. Simplify the given variable expressions by combining like terms

1. $3 + 7 + 9a$

$10 + 9a$

2. $12 + 14b - 5b$

$12 + 9b$

3. $8d - 6 - 2d - 13$

$6d - 19$

4. $-12 - 6x + 5 - 11x$

$-7 - 17x$

5. $8 - 10g - 26 + 15g$

$-18 + 5g$

6. $7y - 5 + 13 - 22y$

$8 - 15y$

7. $10h - 7h + 8j - 3j$

$3h + 5j$

8. $3a - 11b - 17a - 6b$

$-20a - 17b$

9. $14c + 2d - 26c + 13d$

$-12c + 15d$

10. $5\pi - 9\pi + 13\pi - 8\pi$

π

11. $3x - 2y - 7 + 8y - 8 - 2x$

$x + 6y - 15$

12. $9m^2 + 5 - 2m^2 - 1$

$7m^2 + 4$

13. $6g^2 + 11h - 2g^2 + 3h$

$4g^2 + 14h$

14. $5j^2 - 19k^2 - 8j^2 + 9k^2$

$-3j^2 - 10k^2$

15. $2xy - 20 - 7xy + 14$

$-5xy - 6$

16. $9xy - 5x^2y^3 - 3xy + 13x^2y^3$

$6xy + 8x^2y^3$