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Period:

SCORE:

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HW 3-6

Int 1

Add Algebraic Expressions

Unit 3

Simplify each algebraic expression by distributing and combining like terms.

1. $4(3x + 5) + 2(4x - 1)$

6. $5(-3x + 9) + 3(14x - 2)$

2. $3(5x - 3) - 2(2x + 1)$

7. $-11(2x - 7) - 6(3x + 5)$

3. $-4(-7x + 4) + 5(-5x - 12)$

8. $-7(-7x - 5) + 9(3x + 6)$

4. $10(4x + 10) + 2(-5x - 2)$

9. $11(4x + 2) - 8(3x - 1)$

5. $2(7x - 9) - 8(-x - 6)$

10. $4(3x + 5) - 5(-2x - 2)$

Simplify each algebraic expression by distributing and combining like terms

11. $3(2x + 4) + (4x - 2)$

14. $5(r + 6) - 2(r - 5)$

12. $-12(x - 1) - 2(-6x + 3)$

15. $8(8u + 3v + 6) + 2(-4u - 2v - 1)$

13. $-4(6d + 2) + 2(8 + 4d)$

Core Review:

Simplify each expression.

16. $4x - 2 + 3x + 4x - 2 + x$

17. $50 - 10(4x + 3) + 14x$

Evaluate the following if $x = \frac{2}{5}$ and $y = \frac{5}{6}$.

18. xy

21. $3x + 2y$

19. $x - y$

22. $x \div y$

20. x^2