

EXTRA PRACTICE 7
Simplifying Expressions
Use after Section 1.8

Name _____

Example: Simplify. $-(3x + 2y - 8) = -3x - 2y + 8$

Simplify.

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|----------------------------------|-----------------------------------|
| 1. $-(x^2 - 2x + 5) =$ _____ | 2. $-(3x - 4y + 7) =$ _____ |
| 3. $-(2a + 3b + 4c) =$ _____ | 4. $-(-3a + 2b - c) =$ _____ |
| 5. $-(3x + 7) + 2 =$ _____ | 6. $2 - (4x - 8) =$ _____ |
| 7. $2y - (3y - 4) =$ _____ | 8. $-4y - (3x - 7y) =$ _____ |
| 9. $5y - (4x + 7y) - 2x =$ _____ | 10. $3a - (2a + 4b) - 6b =$ _____ |

Example: Simplify. $2\{3(-2) + 4\} + 5[x - 3] = 2\{3x - 6 + 4\} + 5x - 15\}$
 $= 2\{3x - 2 + 5x - 15\}$
 $= 2\{8x - 17\}$
 $= 16x - 34$

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|---|--|
| 11. $3[4x - 7] + 5 =$ _____ | 12. $8[2 - 3x] - 5 =$ _____ |
| 13. $[4x - 3(x - 1) + 6] =$ _____ | 14. $[6x - 2(3x - 6) + 8] =$ _____ |
| 15. $2[3(2x - 1) + 7] =$ _____ | 16. $-8[2(3x + 4) - 2x] =$ _____ |
| 17. $[7(x - 3) + 4] - [6(3x - 2) + x] =$
_____ | 18. $[2(3x - 1) + 5] - [7(x + 4) - 8] =$
_____ |
| 19. $3\{6(x - 4) + 2\} - [3x + 2] =$
_____ | 20. $2\{3(x - 6) + 1\} - 4[3(x - 2) - 3] =$
_____ |