

Name: _____

Period: _____ Date: _____

Simplifying Using Distribution

Section I. Simplify using Distribution. (hint: the answer in column a should not match the one in column b)

1a. $6(8 - 5)$

1b. $6 - (8 - 5)$

2a. $6(x - 5)$

2b. $6 - (x - 5)$

3a. $-4(7 - x)$

3b. $-4 - (7 - x)$

4a. $2(8x + 9)$

4b. $2 - (8x + 9)$

5a. $-7(3 - 4x)$

5b. $-7 - (3 - 4x)$

6a. $x(x - 8)$

6b. $x - (x - 8)$

7a. $5x(x + 4)$

7b. $5x - (x + 4)$

8a. $-7x(3x + 1)$

8b. $-7x - (3x + 1)$

9a. $x(6 - x)$

9b. $x - (6 - x)$

10a. $4x(9 - 2x)$

10b. $4x - (9 - 2x)$

Section II. Simplify using Distribution

11. $12 - (x + 15)$

12. $5(8 - 2x)$

13. $-8(3x - 7)$

14. $12x - (9 - 5x)$

15. $11 - (2x + 4)$

16. $-8(5 + 2x)$

17. $2x(x - 6)$

18. $13x - (7 + 8x)$

19. $-12 - (14 - 9x)$

20. $-7x(7 - 3x)$

21. $15 - (4x + 21)$

22. $5x(6x - 10)$

23. $-24 - (-9x + 18)$

24. $-x(x - 8)$