

Name: \_\_\_\_\_

Period: \_\_\_\_\_ Date: \_\_\_\_\_

## Simplifying Variable Expressions Using Distribution and CLT

### ANSWERS

#### Section I. Simplify using Distribution and/or Combining Like Terms.

1.  $(2x + 5) + (7x - 16)$

$9x - 11$

2.  $7(3 + x) + (9x - 8)$

$16x + 13$

3.  $12x - 7 - 4x + 3$

$8x - 4$

4.  $-4(x - 9) + 5(2x - 1)$

$6x + 31$

5.  $(x + 8) - (5x - 9)$

$-4x + 17$

6.  $(4x - 7) - (2x + 11)$

$2x - 18$

7.  $2(8x + 9) - (7x + 10)$

$9x + 8$

8.  $4(x - 5) - (3x - 14)$

$x - 6$

9.  $-7(3 - 4x)$

$28x - 21$

10.  $-8(x + 2)$

$-8x - 16$

11.  $(x - 2) - 7(3 - 4x)$

$29x - 23$

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

$-7x - 11$

13.  $-3(6 - 11x)$

$33x - 18$

14.  $-9(8 - x)$

$9x - 72$

15.  $-7(2x + 1) - 3(6 - 11x)$

$19x - 25$

16.  $3(x + 7) - 9(8 - x)$

$12x - 51$

17.  $x(6 - x) + 4(2x - 5)$

$-x^2 + 14x - 20$

18.  $x(3 + x) + 5(x + 6)$

$x^2 + 8x + 30$

19.  $x(6 - x) - 4(2x - 5)$

$-x^2 - 2x + 20$

20.  $x(3 + x) - 5(x + 6)$

$x^2 - 2x - 30$