Name:

Date:

Simplifying Variable Expressions

Simplify each expression.

1) $4(x + 10) =$

2) $14x - 6(6 - 5x) =$

3) $-3 - x^2 - 10x^2 =$

4) $35x + 12 - 5x - 5 =$

5) $10x + 8(10x - 5) =$

6) $8x - 7 + 2x + 3x^2 =$

7) $x - 3 + 4x - 5 =$

8) $12x + 8x^2 + 9x + 20 =$

9) $32x - 4 + 25 + 8x =$

10) $(-5)(8x - 6) + 11x =$

11) $10x + 36 - 48x + 9 =$

12) $5y + 10 - 4y - 25 =$

13) $12n - 56 - 10n + 60 =$

14) $15(n + 1) - 5n + 8 =$

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Name:

Date:

Simplifying Variable Expressions

Answers

Simplify each expression.

1) $4(x + 10) =$
$4x + 40$

2) $14x - 6(6 - 5x) =$
$44x - 36$

3) $-3 - x^2 - 10x^2 =$
$-11x^2 - 3$

4) $35x + 12 - 5x - 5 =$
$30x + 7$

5) $10x + 8(10x - 5) =$
$90x - 40$

6) $8x - 7 + 2x + 3x^2 =$
$3x^2 + 10x - 7$

7) $x - 3 + 4x - 5 =$
$5x - 8$

8) $12x + 8x^2 + 9x + 20 =$
$8x^2 + 21x + 20$

9) $32x - 4 + 25 + 8x =$
$40x + 21$

10) $(-5)(8x - 6) + 11x =$
$-29x + 30$

11) $10x + 36 - 48x + 9 =$
$-38x + 45$

12) $5y + 10 - 4y - 25 =$
$y - 15$

13) $12n - 56 - 10n + 60 =$
$2n + 4$

14) $15(n + 1) - 5n + 8 =$
$10n + 23$

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