

Name : _____

Simplifying Algebraic Expressions

Rewrite each expression and then evaluate for the given value of the variable.

1 $12q - 7q - 8; q = 2$

2 $3t + 3(3t - 3); t = 2$

3 $2x + 3 + 7x - 5x + 2; x = 2$

4 $10y - 9 + 5y - 3 + 6y; y = 2$

5 $3 - 2p + 3p + 5; p = 2$

6 $18v - 2v + 7 - 2 + 5v; v = 2$

7 $2b - 5b + 10 - b; b = 4$

8 $3x + 9 + 4x - 5; x = 4$

9 $4 + 8g + 3(3 + 3g); g = 4$

10 $16y - 4y - 7y + 13 - 11; y = 4$

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Simplifying Algebraic Expressions

Answers

1 $12q - 7q - 8; q = 2$

$5q - 8, 2$

2 $3t + 3(3t - 3); t = 2$

$12t - 9, 15$

3 $2x + 3 + 7x - 5x + 2; x = 2$

$4x + 5, 13$

4 $10y - 9 + 5y - 3 + 6y; y = 2$

$21y - 12, 30$

5 $3 - 2p + 3p + 5; p = 2$

$p + 8, 10$

6 $18v - 2v + 7 - 2 + 5v; v = 2$

$21v + 5, 47$

7 $2b - 5b + 10 - b; b = 4$

$-4b + 10, -6$

8 $3x + 9 + 4x - 5; x = 4$

$7x + 4, 32$

9 $4 + 8g + 3(3 + 3g); g = 4$

$17g + 13, 81$

10 $16y - 4y - 7y + 13 - 11; y = 4$

$5y + 2, 22$