

# Work Out the Simplifications

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Simplify.

1)  $3x + 6 - 2x - 4$

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2)  $4 + 7x - 3x - 9$

\_\_\_\_\_

3)  $8 + 7x + 9x + 2$

\_\_\_\_\_

4)  $16y - 3y + 7 - 8y - 1$

\_\_\_\_\_

5)  $15x - 7x + 7 + 5$

\_\_\_\_\_

6)  $8y + 3y + 4 + 2$

\_\_\_\_\_

7)  $8x + 6 - 7x + 7 - 1$

\_\_\_\_\_

8)  $11y - 6y + 13$

\_\_\_\_\_

Simplify and then evaluate the expression for  $x = 3$ .

9)  $-2x - 1 + 9x - 10$

\_\_\_\_\_

10)  $4y + 3 + 2y - 3y - 8$

\_\_\_\_\_

11)  $12x + 9 - 4x - 5$

\_\_\_\_\_

12)  $11x - 3x + 7 - 5 - x$

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## Answers

1)  $3x + 6 - 2x - 4$

$x + 2$

3)  $8 + 7x + 9x + 2$

$16x + 10$

5)  $15x - 7x + 7 + 5$

$8x + 12$

7)  $8x + 6 - 7x + 7 - 1$

$x + 12$

9)  $-2x - 1 + 9x - 10$

$7x - 11, 10$

11)  $12x + 9 - 4x - 5$

$8x + 4, 28$

2)  $4 + 7x - 3x - 9$

$4x - 5$

4)  $16y - 3y + 7 - 8y - 1$

$5y + 6$

6)  $8y + 3y + 4 + 2$

$11y + 6$

8)  $11y - 6y + 13$

$5y + 13$

10)  $4y + 3 + 2y - 3y - 8$

$3y - 5, 4$

12)  $11x - 3x + 7 - 5 - x$

$7x + 2, 23$