UNIT 1 • RELATIONSHIPS BETWEEN QUANTITIES AND EXPRESSIONS
Lesson 3: Interpreting Formulas and Expressions

Practice 1.3.2: Adding and Subtracting Polynomials   A

Find each sum or difference.

1. $(x^3 - 5) + (6x^3 + 2)$

2. $(x^3 - 4x + 2) + (x^4 + 12x)$

3. $(-3x^2 + 16) - (x^2 - 22x - 4)$

4. $(5x^5 - 2x) - (4x^4 + 3x^2)$

5. $(10x - 9) - (-x^2 + 22x)$
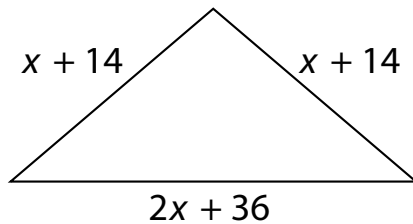
6. $(6x^4 + 8) + (x^4 - 2x^3 + 1)$

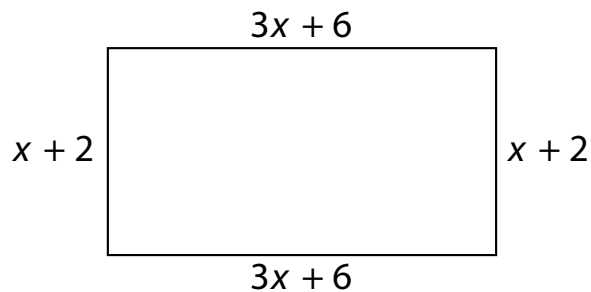## UNIT 1 • RELATIONSHIPS BETWEEN QUANTITIES AND EXPRESSIONS
Lesson 3: Interpreting Formulas and Expressions

The perimeter of a polygon is the sum of the lengths of the sides of the polygon. For problems 7–10, find the perimeter of each shape in terms of x. All lengths are given in centimeters.
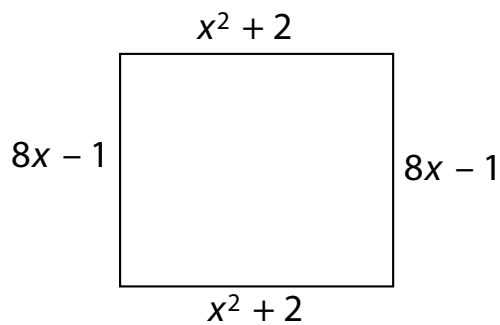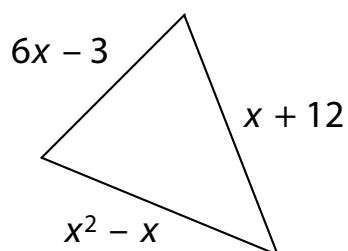
7.

$x + 14$ $x + 14$

$2x + 36$

8.

$3x + 6$

$x + 2$ $x + 2$

$3x + 6$

9.

$x^2 + 2$

$8x - 1$ $8x - 1$

$x^2 + 2$

10.

$6x - 3$

$x + 12$

$x^2 - x$

UNIT 1 • RELATIONSHIPS BETWEEN QUANTITIES AND EXPRESSIONS
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Practice 1.3.2: Adding and Subtracting Polynomials   B

Find each sum or difference.

1. $(x + 18) + (-x + 4)$

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

3. $(x^2 - 2) + (-x^3 + 2x - 12)$

4. $(x^6 + x^3) - (-3x^6 + x^2)$
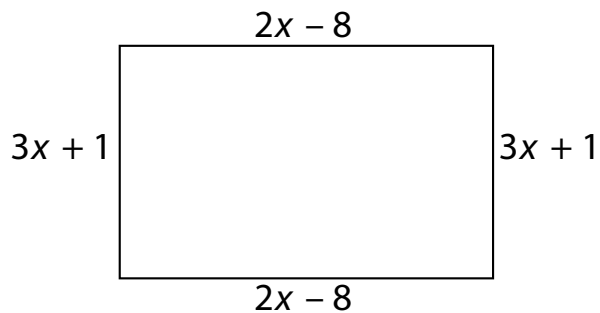
5. $(6x^2 - 6) - (x^3 - x)$

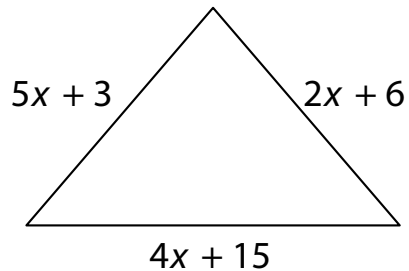6. $(8x^3 + x^2 - 3) + (x^2 - 4)$

continued

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The perimeter of a polygon is the sum of the lengths of the sides of the polygon. For problems 7–10, find the perimeter of each shape in terms of x. All lengths are given in centimeters.
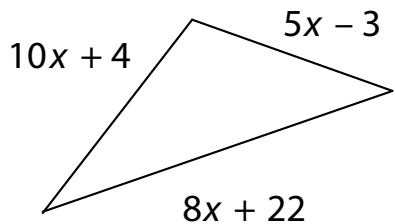
7.

$2x - 8$

$3x + 1$ $3x + 1$

$2x - 8$

8.

$5x + 3$ $2x + 6$

$4x + 15$

9.

$5x - 3$

$10x + 4$

$8x + 22$

10.

$2x^2 - 5$

$12x + 1$ $12x + 1$

$2x^2 - 5$