UNIT 4 • EXTENDING THE NUMBER SYSTEM
Lesson 2: Operating with Polynomials

Practice 4.2.1: Adding and Subtracting Polynomials

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

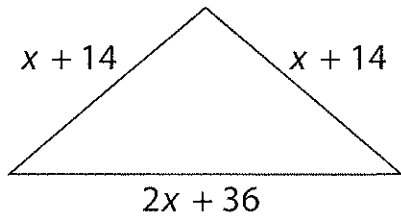5. $(10x - 9) - (-x^2 + 22x)$

6. $(6x^4 + 8) + (x^4 - 2x^3 + 1)$
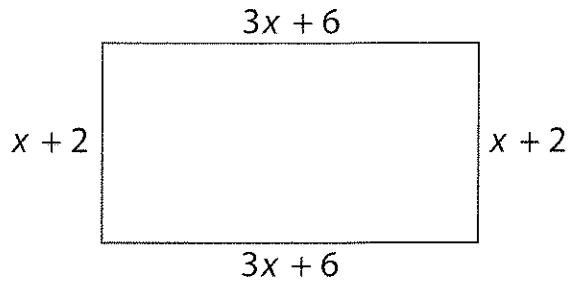
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The perimeter of a polygon is the sum of the lengths of the sides of the polygon. For problems 7–10, find the perimeter of each shape. All lengths are given in centimeters.
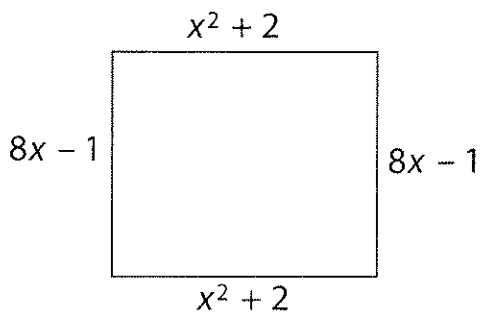
7.

$x + 14$ $x + 14$

$2x + 36$

8.

$3x + 6$

$x + 2$ $x + 2$

$3x + 6$

9.

$x^2 + 2$

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

$x^2 + 2$

10.

$6x - 3$

$x + 12$

$x^2 - x$