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

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**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.  $(6x^4 + 8) + (x^4 - 2x^3 + 1)$

**continued**

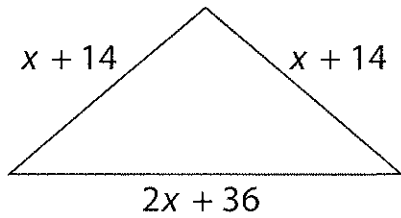
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**UNIT 4 • EXTENDING THE NUMBER SYSTEM**

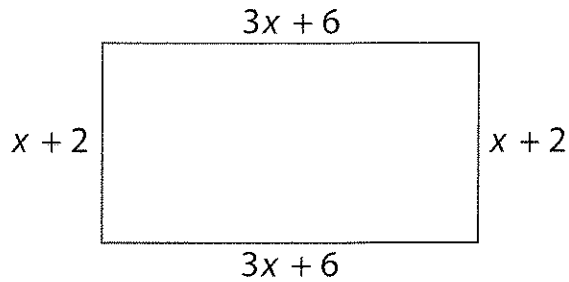
**Lesson 2: Operating with Polynomials**

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.

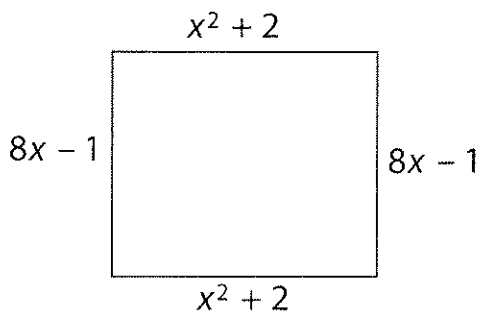
7.



8.



9.



10.

