

# Practice 12-2

## Adding and Subtracting Polynomials

Name the coefficients in each polynomial.

1.  $x^2 - 3x + 5$

\_\_\_\_\_

2.  $b^2 - 4b + 3$

\_\_\_\_\_

3.  $-2a^2 + 4a - 6$

\_\_\_\_\_

4.  $x^3 - 2x^2 + 4x$

\_\_\_\_\_

5.  $14y^3 + 4y + 0$

\_\_\_\_\_

6.  $-11s^2 - 9s + 2$

\_\_\_\_\_

Find each sum.

7.  $(5x - 4) + (6x + 2)$

\_\_\_\_\_

8.  $(7x^2 + 3x - 5) + (-4x^2 - x + 4)$

\_\_\_\_\_

9.  $(2x^2 + 8) + (3x^2 - 9)$

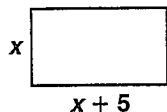
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10.  $(5x^2 - 3x + 3) + (4x - 5)$

\_\_\_\_\_

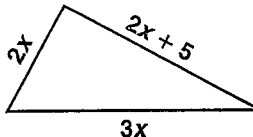
Write the perimeter of each figure as a polynomial. Simplify.

11.



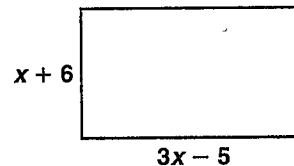
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12.



\_\_\_\_\_

13.



\_\_\_\_\_

Find each difference.

14.  $(4x^2 + 1) - (x^2 + 3)$

\_\_\_\_\_

15.  $(3x^2 + 7x - 5) - (x^2 - 4x - 1)$

\_\_\_\_\_

16.  $(6x^2 + 8x + 1) - (4x^2 - 8x + 7)$

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