

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

Circle the letter of the best answer.

- What is the result of  $(x^2 - 6) + (3x^2 + 4)$ ?
  - $4x - 10$
  - $4x^2 + 10$
  - $x^2 - 2$
  - $4x^2 - 2$
- What is the result of  $(5x + 2) - (x^3 + x^2 - 9)$ ?
  - $4x^3 + x^2 + 11$
  - $-x^3 - x^2 + 5x + 11$
  - $x^3 + x^2 + 5x - 7$
  - $-x^2 + 5x - 11$
- What is the result of  $(8x^2 + 7x - 2) - (x^2 - 3x + 1)$ ?
  - $7x^2 + 10x - 3$
  - $7x^2 + 4x - 3$
  - $8x^2 + 4x - 1$
  - $8x^2 + 10x - 2$
- What is the result of  $(x - 12)(3x + 4)$ ?
  - $3x^2 - 48$
  - $x^2 - 32x - 48$
  - $3x^2 - 36x + 48$
  - $3x^2 - 32x - 48$
- What is the result of  $(-x^3 + x^2 + 2)(5x + 2)$ ?
  - $-5x^4 - 2x^3$
  - $-5x^4 + 5x^3 + 10x$
  - $-5x^4 + 3x^3 + 2x^2 + 10x + 4$
  - $-x^3 + 5x^2 + 10x + 4$
- What is the result of  $(9x^3 + 4x^2 + 3) + (-x^3 + 2x^2 - 16)$ ?
  - $8x^3 + 6x^2 - 13$
  - $10x^3 + 6x^2 + 19$
  - $16x - 13$
  - $10x^3 + 2x^2 + 19$
- What is the result of  $(-5x + 8) + (x^2 - 10x)$ ?
  - $x^2 - 15x + 8$
  - $-6x - 2$
  - $x^2 + 5x + 8$
  - $-x^2 - 15x$

**continued**

