

Name \_\_\_\_\_

**11-2B Lesson Master****Questions on SPUR Objectives**

See pages 708–711 for objectives.

**SKILLS** Objective A

In 1–10, simplify the expression.

1.  $(3x^2 + 18x - 12) + (3x + 18)$   
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2.  $(9y^3 + 2y^2 + 8y) - (2y^3 - 8y^2 - 13)$   
\_\_\_\_\_

3.  $(12m^2 + 7m - 6) + (28m^2 + 77m)$   
\_\_\_\_\_

4.  $(50p^3 + 130p^2 + 80p - 90) - (11p^3 + 5)$   
\_\_\_\_\_

5.  $(63r + 119) + (85r^2 + 153)$   
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6.  $(65x^2 - 169x + 91) - (24x^2 - 36x - 8)$   
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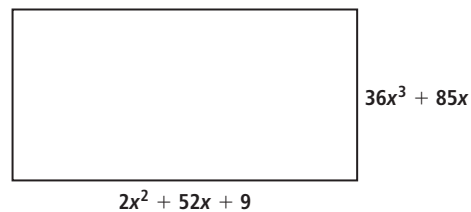
7.  $(3b^3 + 8b^2 - 15b + 1) + (4b^2 - 1)$   
\_\_\_\_\_

8.  $(t^3 - 7t^2 + 16) - (10t^3 + 6t^2 - 8)$   
\_\_\_\_\_

9.  $(9x^4 - 16x^3 + 15) + (7x^4 - 7x^2 + 5)$   
\_\_\_\_\_

10.  $(78z^5 + 72z^4) - (33z^3 + 66z^2 + 22z)$   
\_\_\_\_\_

11. Write the perimeter of the rectangle as a polynomial in standard form.
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- \_\_\_\_\_

**PROPERTIES** Objective E

12. Classify each polynomial by its degree and number of terms.

a.  $x^7y^{14} + 19$   
\_\_\_\_\_

b.  $8a^2 + 17a^{10} - 12$   
\_\_\_\_\_

c.  $2w + 17$   
\_\_\_\_\_

d.  $18n^4 - 8n^3 + 7$   
\_\_\_\_\_

Name \_\_\_\_\_

**11-2B****page 2**

13. Let  $p(v) = 4v^3 + 13v^2 + 7$  and  $q(v) = v^3 - 17v^2 + 14v + 5$ . Give the degree of each polynomial.

a.  $p(v) + q(v)$

b.  $p(v) - q(v)$

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14. Let  $f(x) = 8x^2 - 15x + 4$  and  $g(x) = 11x + 6$ . Give the degree of each polynomial.

a.  $g(x) + f(x)$

b.  $g(x) - f(x)$

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In 15–18, an expression is given.

a. Tell whether the expression is a monomial.

b. If it is a monomial, state its degree.

15.  $6x^{17}$

a. \_\_\_\_\_

b. \_\_\_\_\_

16.  $4w^{-9}$

a. \_\_\_\_\_

b. \_\_\_\_\_

17.  $7x^3y^{-5}$

a. \_\_\_\_\_

b. \_\_\_\_\_

18.  $11a^4b^{12}$

a. \_\_\_\_\_

b. \_\_\_\_\_

19. a. Write a monomial in  $w$  whose degree is 3. \_\_\_\_\_

b. Write a monomial in  $w$  and  $z$  whose degree is 3. \_\_\_\_\_

20. Give an example of a binomial of degree 9. \_\_\_\_\_

21. Give an example of a trinomial of degree 6. \_\_\_\_\_