Unit 7 Day 2 HW

p. 362 #13-17 odds, 25, 28, 29, 33, 36, 39, 44

In Exercises 13–20, write the polynomial in standard form. Identify the degree and leading coefficient of the polynomial. Then classify the polynomial by the number of terms. *(See Examples 2 and 3.)*

13. $6c^2 + 2c^4 - c$

14. $4w^{11} - w^{12}$

15. $7 + 3p^2$

16. $8d - 2 - 4d^3$

17. $3t^8$

18. $5z + 2z^3 + 3z^4$

25. $(2n^2 - 5n - 6) + (-n^2 - 3n + 11)$

26. $(-3p^3 + 5p^2 - 2p) + (-p^3 - 8p^2 - 15p)$

27. $(3g^2 - g) + (3g^2 - 8g + 4)$

28. $(9r^2 + 4r - 7) + (3r^2 - 3r)$

29. $(4a - a^3 - 3) + (2a^3 - 5a^2 + 8)$

33. $(y^2 - 4y + 9) - (3y^2 - 6y - 9)$

34. $(4m^2 - m + 2) - (-3m^2 + 10m + 4)$

35. $(k^3 - 7k + 2) - (k^2 - 12)$

36. $(-r - 10) - (-4r^3 + r^2 + 7r)$

ERROR ANALYSIS In Exercises 39 and 40, describe and correct the error in finding the sum or difference.

39.

> ✗ $(x^2 + x) - (2x^2 - 3x) = x^2 + x - 2x^2 - 3x$
> $= (x^2 - 2x^2) + (x - 3x)$
> $= -x^2 - 2x$

In Exercises 43–46, find the sum or difference.

43. $(2s^2 - 5st - t^2) - (s^2 + 7st - t^2)$

44. $(a^2 - 3ab + 2b^2) + (-4a^2 + 5ab - b^2)$