Answers to problems in page 184

- **25. a.** sodium (Na⁺) and nitrate (NO₃)
 - **b.** potassium (K^+) and sulfite (SO_3^{2-})
 - c. ammonium (NH₄⁺) and chromate (CrO₄²⁻)
 - d. aluminum (Al³⁺) and sulfate (SO₄²⁻)
- 26. a. copper(II) phosphate
 - b. iron(III) nitrate
 - c. copper(I) oxide
 - d. copper(II) oxide
- 27. a. Li₂SO₄
 - **b.** $Sr(NO_3)_2$
 - c. NH₄CH₃COO
 - d. Ti₂(SO₄)₃
- **28. a.** AgNO₃
 - b. CaS₂O₃
 - c. Ba(OH)₂
 - d. CoPO₄
- 29. barium; Cl⁻; chromium(III); fluoride; Mn²⁺; O²⁻; a. MnCl₂;
 - b. CrF₃; c. BaO
- **30. a.** $Ba(NO_3)_2$
 - **b.** CaF₂
 - c. KI
 - d. NH₄OH
- 31. a. peroxide
 - b. chromate
 - c. ammonium
 - d. carbonate
- **32.** S^{2-} ; [Ne] $3s^23p^6$
 - Be $^{2+}$; 1s 2
 - I^- ; [Kr] $4d^{10}5s^25p^6$
 - Rb^+ ; [Ar]3 $d^{10}4s^24p^6$
 - O^{2-} ; [He]2 s^22p^6
 - Sr^{2+} ; [Ar] $3d^{10}4s^24p^6$
 - F^- ; [He]2 s^2 2 p^6