

Chapter 9: Section 1: Proofs and Equations

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Problems/Pedagogy

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What algebraic equations for the following word equations:

- (a) Hydrogen and bromine gases react to yield hydrogen bromide:



- (b) Hydrochloric acid reacts with oxygen to yield hydrogen chloride:



- (c) Challenge: Write the word equation and the algebraic equation for the following reaction: react: nitric acid, hydrochloric acid; products: nitrous acid, hydrochloric acid



What algebraic equations for each of the following reactions:

- (a) An iron(II) chloride-water solution reacts with sodium hydroxide producing solid iron(II) hydroxide and aqueous sodium chloride



- (b) Superoxide anions react with oxygen gas, producing one mole of solid peroxide and solid sodium chloride per:



- (c) Challenge: A hydrochloric acid is solution, volume of nitric acid solution, 1 mole of peroxide is given and a solution of water is given:



Chemistry Ch 9 Practice Problems Answer Key

Donna Larson



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