

## II-2: You're Fired HW

1. Predict whether or not the following substances will combust. Provide some sort of evidence for each one of your answers.

- a. S, sulfur
- b. CH<sub>4</sub>, methane
- c. Al<sub>2</sub>O<sub>3</sub>, aluminum oxide
- d. HCOOH, formic acid
- e. BaCl<sub>2</sub>, barium chloride
- f. MgO, magnesium oxide
- g. C<sub>6</sub>H<sub>6</sub>, benzene
- h. He, helium

2. Write the combustion equations for the following substances:

- a. S, sulfur
- b. CH<sub>4</sub>, methane
- c. H<sub>2</sub>, hydrogen
- d. C<sub>6</sub>H<sub>6</sub>, benzene
- e. Ca, calcium
- f. CH<sub>3</sub>OH, methanol