## **Joint Group Meeting Problems**

## May 16<sup>th</sup>, 2013

## Deep

1. Predict the product for the following reaction with plausible mechanism:

**2.** Predict the structure of compound A (belongs to a Cubic point symmetry group) and show mechanism for formation of A & B:

8 O 
$$ZnCl_2$$
 A + a O + b  $H_2S$  [a>1, b=2]
$$\downarrow H^+ \downarrow H_2O$$

$$\downarrow S \downarrow S \downarrow S \downarrow S$$
B