## Extra Practice Problems for Midterm Exam

- 1. Suppose you claim that X causes Y and you find the expected correlation between measure of X and Y. There are four ways to obtain a correlation between X and Y. What are they? What role does randomization play in eliminating two of the possibilities?
- 2. How do we typically choose the line that the "best fits" the points in a scatterplot? What are the implications for big, medium, and small errors?