1. What is your name?

Brock Francom

- 2. For each of the following propositions, determine whether it is true or not; indicate your determination in the usual way and then write a paragraph justifying your choice:
 - A. $X \in \{ \text{ Bernoulli random variables } \} \Rightarrow X \in \{ \text{ binomial random variables } \}$

A Binomial random variable is a binomial random variable.

A Binomial random variable with n=1 is a Bernolli random variable, but since a binomial random variable can have more than 1 trial.

B. $X \in \{ \text{ binomial random variables } \} \rightarrow X \in \{ \text{ Bernoulli random variables } \}$

T (F)

This is false because a binomial random variable can have many trials, while Bernoulli can only have 0 or 1 trials. That means a Binomal but it also can not be a Bernoulli random variable,

3. Smile.