Math 215: Introduction to Advanced Mathematics Problem Set 8

Due: Friday November 2

Do the following problems from the text: pg 117-118: 20, 21 i); pg 273: 17

1) Let X be any set. Define a binary relation \sim on $\mathcal{P}(X)$ by $A \sim B$ if and only if there is a bijection $f : A \to B$. Prove that \sim is an equivalence relation.

2) Let $A = \{a, b, c\}$. Describe all partitions of A.