

Intro to Abstract Math Fall 2009

Homework 11 Due September 30

Exercise 31. Let A, B and C be sets. Show that $A - (B \cup C) = (A - B) \cap (A - C)$.

Exercise 32. Let A and B be sets. Prove that if $A \subseteq B$ then $\mathcal{P}(A) \subseteq \mathcal{P}(B)$.

Exercise 33. Prove that for all $n \ge 0$, if A is a set with exactly n elements then $\mathcal{P}(A)$ has exactly 2^n elements.