

Intro to Abstract Mathematics
Assignment 6.2 Spring 2020

Due March 4

Exercise 1. Textbook exercise 3.3.6.

Exercise 2. Let $a, x \in \mathbb{R}$ and suppose that $a>0$. Prove that the equation $y+a^{2} / y=x$ has a real solution if and only if $2 a \leq|x|$.

Exercise 3. Prove that if $A$ and $B \backslash C$ are disjoint, then $A \cap B \subset C$.

