

Discrete Structures

10/5/23

HW 5

Joshua Schmitz

3.1.10 Let $a = -1$. $\frac{(-1-1)}{-1} = \frac{-2}{-1} = 2$; 2 is an integer.

3.1.17b \exists a real number x such that x is rational.

3.1.23b $\forall x$, if x is a computer science student, then x needs to take data structures. $\forall x$ computer science students x , x needs to take data structures.

6.1.1d No. No. No. f, Yes. Yes. No.

6.1.3c $T \subseteq S$ because every integer divisible by 6 is divisible by 3. This is because 3 is a factor of 6, and any integer divisible by a number is divisible by its factors.