

Homework 1

Math 300 (section 901), Fall 2021

This homework is due on Wed., Sept. 1. (Turn in your answers to questions 1–3.)

0. (*This problem is not to be turned in.*) Read the syllabus. Bookmark the course webpage on your computer, if you have one. Set up your **Piazza.com** account. Mark all exams and their times on your calendar. (a) Where and what time are the regular office hours for this course? (b) If you miss class, where can you find the homework assignments? (c) (How) will grades be “curved”? (d) A student has received the following grades on Homeworks: 9, 10, 8, 8 (out of 10) and Exam 1: 78%. What is this student’s current grade in the class? (e) How do you schedule a tutoring appointment with the Texas A&M Math Learning Center? How much does it cost?
1. Read Section 1.1.
 - (a) List all defined words (in bold) that you have *not* previously seen in a math class.
 - (b) Which of these symbols¹, have you *not* previously seen: $\mathbb{N}, \mathbb{Z}, \mathbb{Q}, \mathbb{I}, \mathbb{R}, \mathbb{C}$?
2. Give an example of two sets, each with cardinality 4, that have exactly one element in common².
3. Section 1.1 (pg. 17)
 - (a) #1.1 (and for this problem, explain why the non-sets are not sets)
 - (b) # 1.2

¹Your textbook uses **N, Z, Q, I, R, C** (pg. 17)

²Challenge problems: If the “that” in this sentence were a “which”, would it be a “wicked which” (see pg. 11–12)? Are “two”, “4”, and “one” used correctly (see #5 on pg. 7)?

Writing Assignment 1

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This homework is due on Wed., Sept. 1. *Complete this part on a separate piece of paper, not the same paper for Homework 1.*

1. Complete the survey (separate handout).
2. Write a paragraph describing how, in your view, what you will learn in Math 300 will be relevant to your life and/or your personal/college/career goals.
3. Read pg. 1 and Sections 0.1 and 0.2. Pick one paragraph or quote (or other excerpt) from each of Sections 0.1 and 0.2, and write a short (a few sentences) response to each.