

**Homework 1 (due Tues 15 Jan 2021)**

Before getting on with Algebra, we hit some selected preliminaries from Chapter 1. Most of this stuff should be familiar but it is good to warm up and establish some common foundation. Reading sections 1,2,3,4 of Chapter 1 will not hurt. Holler if something there looks terribly unfamiliar.

**Solve and write up the following 5 problems:**

**problem 14 page 7** Hint: As a basis of your solution, use that  $m(A \cup B) = m(A) + m(B)$  for any disjoint sets  $A$  and  $B$ .

**problem 20 page 7** Hint: Ditto.

**problem 6 page 13** Hint: Follow your nose. Be precise.

**problems 11 and 13 page 20** Hint: Build 13 out of problem 12 page 20 solved *in class (video)*.