Section 2.5 – Union and Intersection

Problem Set 1

Find the union and intersection of the following sets.

1. {3, 5, 12, 13} and {3, 4, 5, 6}
2. {-11 -4, -2, 4} and {11, 25, -2, 3, 4}
3. {6, 12, -10, -4, 17} and {3, 5, 7, 8, 10} and {3, 4, 5}
4. {-10, -2, 2, 7, 12} and {-21, -1, 1, 11, 21}
5. { *a, b, x, y, z* } and { *a, b, m, n, x* }
6. {2, 4, 6, 8, … } and {0, 2, 4, 6, 8, …}
7. {the natural numbers greater than 1} and {the integers less than 5}
8. {the real numbers greater than -2} and {the whole numbers between -11 and 3}
9. {the even integers} and {the positive natural numbers}
10. { *e, f, g, h, i, j* } and { all English vowels }
11. { states that border Canada } and { states that border Mexico }
12. { mammals } and { animals that live in the ocean }
13. { power tools } and { hand tools}
14. { English vowels } and { the last ten letters of the English alphabet }