

Section 2.5 – Union and Intersection

Problem Set 3

Find the union and intersection of the following sets.

1. $\{4, 6, 14, 16\}$ and $\{4, 5, 7, 8\}$
2. $\{-15, -6, 7, 1, 4\}$ and $\{14, 28, 103, -15, 1, 7\}$
3. $\{7, 9, -12, -5, 4\}$ and $\{2, 4, 8, 9, 13\}$ and $\{2, 6, 4\}$
4. $\{-16, -7, 2, 9, 12\}$ and $\{-16, -19, 1, 12, 23\}$
5. $\{a, h, y, e, s, h, r\}$ and $\{h, s, y, w, r\}$
6. $\{1, 3, 5, 7, 9, 11, 13\}$ and $\{1, 2, 3, 4, \dots\}$
7. {the natural numbers less than or equal to 9} and {the natural numbers less than 16}
8. {the integers greater than -4} and {the natural numbers between -15 and 5}
9. {the even whole numbers} and {the positive integers}
10. $\{a, b, c, d, e, k, n, q, x\}$ and { the first seven letters in the English alphabet }
11. { continents } and { oceans }
12. { algebra, geometry, calculus } and { geometry, trigonometry }
13. { tables, chairs, couches, foot stools } and { tables, chairs, plates, place mats }
14. { mammals that can live on land } and { mammals that can live in water }