

Section 2.5 – Union and Intersection

Problem Set 2

Find the union and intersection of the following sets.

1. $\{1, 4, 9, 14\}$ and $\{1, 2, 3, 4\}$
2. $\{-8, -2, -5, 3, 7, 2\}$ and $\{19, 23, 9, -2, 3, 2\}$
3. $\{4, 6, 7, -3, 14\}$ and $\{1, 3, 5, 7, 19\}$ and $\{1, 2, 8\}$
4. $\{-8, -4, 1, 4, 8\}$ and $\{-19, -7, 0, 7, 19\}$
5. $\{a, i, m, n, r, s, t\}$ and $\{a, e, i, o, u\}$
6. $\{\dots, -3, -2, -1, 0\}$ and $\{-2, -1.5, -1, -.5, 0, .5, \dots\}$
7. {the natural numbers greater than 7} and {the integers less than 12}
8. {the real numbers greater than -3} and {the natural numbers between -7 and 2}
9. {the even integers} and {the negative real numbers}
10. $\{a, b, c, d, e\}$ and {all letters in the English alphabet }
11. {countries in Europe } and { countries in Europe whose names start with S }
12. { shirts, pants, ties, socks, jackets} and { socks, shoes }
13. { orange, green, yellow, blue, purple } and { purple, gray, black, green } and { green, yellow, brown, blue }
14. { words that start with A } and { words that end with A }