9.1 / SETS Outline DEMO-Example Solutions...

4. \{-9, -8, -7, -6, -5\}

Note that “roster method” simply means to list the actual elements, separated by commas, inside a set of curly braces (i.e., the symbols used to denote a set)...

6. \{-10, -8, -6, -4, -2\}

8. \{q, r, s, t, u\}

10. \{-3, -2, -1, 0\}

Note that union combines all elements, and although the elements “-2” and “-1” occur in both sets A & B, they are listed only once...

12. \{a, b, c, x, y, z\}

14. \{m, n, o, p, q\}

16. \{-3, -2, -1, 1, 2\}

18. \{-4\}

Note that intersection includes only elements “common” to both sets...

20. \{1, 2, 3, 4\}

22. \{m, n\}

24. \{x \mid x < 5, \ x \in \text{Integers}\}

Note that this set (notation) is read as, “the set of all \(x\) such that \(x\) is less than 5 AND \(x\) is an element of the integers”...

26. \{x \mid x < -70, \ x \in \text{Integers}\}

28. \{x \mid x < -2, \ x \in \text{odd Integers}\}

30. \{x \mid x < 57, \ x \in \text{Real numbers}\}