Exercise 9

Real Numbers List the elements of the given set that are

(a) natural numbers

(b) integers

(c) rational numbers

(d) irrational numbers

$$\left\{-1.5, 0, \frac{5}{2}, \sqrt{7}, 2.71, -\pi, 3.1\overline{4}, 100, -8\right\}$$

Solution

(a)   Natural numbers: 100

(b)   Integers: $0, 100, -8$

(c)   Rational numbers: $-1.5, 0, \dfrac{5}{2}, 2.71, 3.1\overline{4}, 100, -8$

(d)   Irrational numbers: $\sqrt{7}, -\pi$