

2.1 Classifying Numbers

Simplify each radical expression.

1) $\sqrt{-4}$

2) $\sqrt{-256}$

3) $\sqrt{-9}$

4) $\sqrt{-400}$

5) $\sqrt{-196}$

6) $\sqrt{-64}$

Identify the real and imaginary part of each complex number.

7) $6 + 12i$

8) $-3 - i$

9) $4 - 8i$

10) $7i$

List all sets to which each number belongs. Circle its most specific set.

11) -7

12) $\sqrt{41}$

13) $12i$

14) π

15) $0.65656565\dots$

16) $\frac{97}{4}$

17) $\sqrt{169}$

18) $6 - 4i$

19) $\frac{65}{5}$

20) $2 + \pi$

Name to most specific set to which each number belongs.

21) $\sqrt{64}$

22) $-\frac{13}{7}$

23) 1

24) $4.2749236586947\dots$