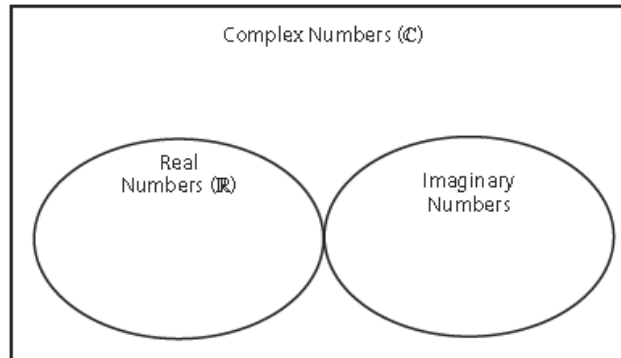


PRACTICE

Write each number in its proper location in the Venn diagram.

- $3 + i$
- -17
- $\sqrt{7}$
- $9i$
- $-6 - 5i$
- $-\frac{7}{8}$
- 6.492
- $-\sqrt{-25}$



PRACTICE

Add or subtract.

- $10i - 2i$ _____
- $9i - (13 + 7i)$ _____
- $(9 - 8i) - (6 - 4i)$ _____
- $(3 + 15i) - (-5 + i)$ _____

Multiply.

- $-2(1 - 3i)$ _____
- $5i(-5 + 2i)$ _____
- $(4 - 8i)(5 - 6i)$ _____
- $(5 + 4i)(3 + 9i)$ _____
- $(1 + 2i)^2$ _____
- $(2 - i)^2$ _____

- Find the values i^1 , i^2 , i^3 , and i^4 . Use these to find the product $i^{18} \cdot i^{28}$ two ways: (1) by simplifying each power before multiplying, and (2) by using the product of powers property and then simplifying.
