Arithmetic with Complex Numbers

Happily, adding with complex numbers is no different from adding other expressions. Remember

\[ 2x + 9x = (2 + 9)x \quad \text{We factor first.} \]
\[ = 11x. \quad \text{Then we can just add the constants.} \]

This means we can do the following.

\[ 2i + 9i = (2 + 9)i \quad \text{We factor first.} \]
\[ = 11i. \quad \text{Then we can just add the constants.} \]