Exercise 27

For the following exercises, perform the indicated operation and express the result as a simplified complex number.

$$(-1+2i)(-2+3i)$$

Solution

Use the distributive property.

$$(-1+2i)(-2+3i)$$

$$2-3i-4i+6i^{2}$$

$$2-7i+6(-1)$$

$$2-7i-6$$

$$-4-7i$$