Exercise 21

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

$$(-4 + 4i) - (-6 + 9i)$$

Solution

Distribute the minus sign and then combine like-terms.

$$-4 + 4i + 6 - 9i$$

$$(-4 + 6) + (4 - 9)i$$

$$(2) + (-5)i$$

$$2 - 5i$$