

Exercise 23

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

$$(5 - 2i)(3i)$$

Solution

Use the distributive property.

$$(5 - 2i)(3i)$$

$$5(3i) - 2i(3i)$$

$$15i - 6i^2$$

$$15i - 6(-1)$$

$$15i + 6$$

$$6 + 15i$$