

Exercise 17

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

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

Solution

Add the real parts and imaginary parts separately.

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

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

$$8 + (-1)i$$

$$8 - i$$