

Exercise 30

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

$$\frac{3 + 4i}{2}$$

Solution

Use the distributive property.

$$\frac{3 + 4i}{2}$$

$$\frac{1}{2}(3 + 4i)$$

$$\frac{3}{2} + \frac{4}{2}i$$

$$\frac{3}{2} + 2i$$