## Exercise 29

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

$$
(3+4 i)(3-4 i)
$$

## Solution

Use the distributive property.

$$
\begin{gathered}
(3+4 i)(3-4 i) \\
9-12 i+12 i-16 i^{2} \\
9-16(-1) \\
9+16
\end{gathered}
$$

