## Exercise 9

Use $-1=(-1,0)$ and $z=(x, y)$ to show that $(-1) z=-z$.

## Solution

$$
\begin{aligned}
(-1) z & =(-1,0)(x, y) \\
& =(-x-0,0-y) \\
& =(-x,-y) \\
& =-x-i y \\
& =-(x+i y) \\
& =-z
\end{aligned}
$$

