

This expression is not equivalent. Use the distributive property and simplify.

$$\begin{aligned} -i(5 - 2i) &= (-i)(5) - (-i)(2i) = -5i - (-2i^2) = \\ &= -5i + 2i^2 \\ &= -5i + 2(-1) = -5i + (-2) = -2 - 5i \end{aligned}$$