

You may have simplified by dividing 10 by 1 and by i , obtaining $\frac{10}{1} + \frac{10}{i}$ and then rationalizing $\frac{10}{i}$ to get $-10i$.

Treat the division as a fraction and rationalize the denominator: $\frac{10}{1+i} = \frac{10}{1+i} \cdot \frac{1-i}{1-i}$

The correct answer is $5 - 5i$.