## Answer on Question \#52712 - Math - Complex Analysis

Write a complex number in trigonometric form, using the degree measure for the argument:

$$
-5 \sqrt{2}+5 i \sqrt{2}
$$

## Solution

Let's rewrite the given complex number as follows

$$
-5 \sqrt{2}+5 i \sqrt{2}=10\left(-\frac{1}{\sqrt{2}}+i \frac{1}{\sqrt{2}}\right)=10\left(\cos \frac{3 \pi}{4}+i \sin \frac{3 \pi}{4}\right)
$$

Answer: $10\left(\cos \frac{3 \pi}{4}+i \sin \frac{3 \pi}{4}\right)$.

