Answer on Question #42432 – Math – Complex Analysis

$\frac{5}{2}$(cos 150° + i sin 150°)=$\frac{5}{2}\left(-\frac{\sqrt{3}}{2}+i\frac{1}{2}\right)=-\frac{5}{2}\times\frac{\sqrt{3}}{2}+i\frac{5}{2}\times\frac{1}{2}=-\frac{5\sqrt{3}}{4}+i\frac{5}{4}=a+bi$, here $a=-\frac{5\sqrt{3}}{4}$, $b=\frac{5}{4}$.