49 $\left(\sqrt{3}+i\right)^5=\left(2\left(\cos 30^\circ+i\sin 30^\circ\right)\right)^5=2^5\left(\cos(5\cdot 30^\circ)+i\sin(5\cdot 30^\circ)\right)=32\left(\cos 150^\circ+i\sin 150^\circ\right)=-16\sqrt{3}+16i$

This result is verified with the calculator in *Figure 49.*

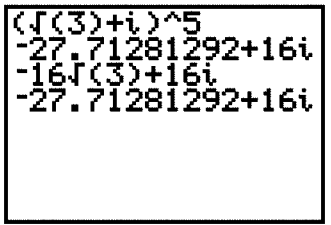

Figure 49