

→ at $z=0$, integral contains singularity.

But as we apply gaussian Quadrature, it avoids, the value of function at $x=y=z=0$. So we don't face any issue.

→ ~~Even if it would~~ gaussian quadrature would have given 0, we would remove it from ~~array~~ and ~~not consider~~ our function itself.

→ So even if GQ gives 0 for some value of sample points, we can alter sample number or sample points to avoid the 0 point.

→ we can also replace $F(z=0)$ by calculating

~~limit~~
 $\lim_{z \rightarrow 0}$

$\lim_{z \rightarrow 0} F(z)$. This can be found

graphically if we plot $F(z)$ near