

Math 302 – 02 Quiz 5

Name:.....Serial#:.....

Q.1: Evaluate $\int_{\Gamma} f(z)dz$, where $f(z) = 1 + z^2$, and Γ is a part of circle of radius 4 about the origin from $-4i$ to $4i$.

Q.2: Evaluate $\int_{\Gamma} f(z)dz$, where $f(z) = \bar{z}$, where Γ is the unit circle-about the origin.

Q.3: Evaluate $\int_{\Gamma} f(z)dz$, where $f(z) = \frac{z \sin(3z)}{(z+4)^3}$, Γ is a circle $|z - 2i| = 9$.