KFUPM
Department of Mathematics and Statistics

MATH 302-2
Quiz 7, Term 101

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Exercise 1. Let $f(z) = \dfrac{1}{z^2 - 5z + 4}$ and Γ be the positively oriented circle of center O and radius 2. Evaluate the integral $\oint_\Gamma f(z)dz$.

Exercise 2. Evaluate the integral

$$\oint_\Gamma \frac{\sin(z^2)}{(z-1)^2}dz,$$

where Γ is any positively oriented simple closed path enclosing 1.