

Quiz #9

Monday, December 5 2016

Duration: 20 min

NAME: _____

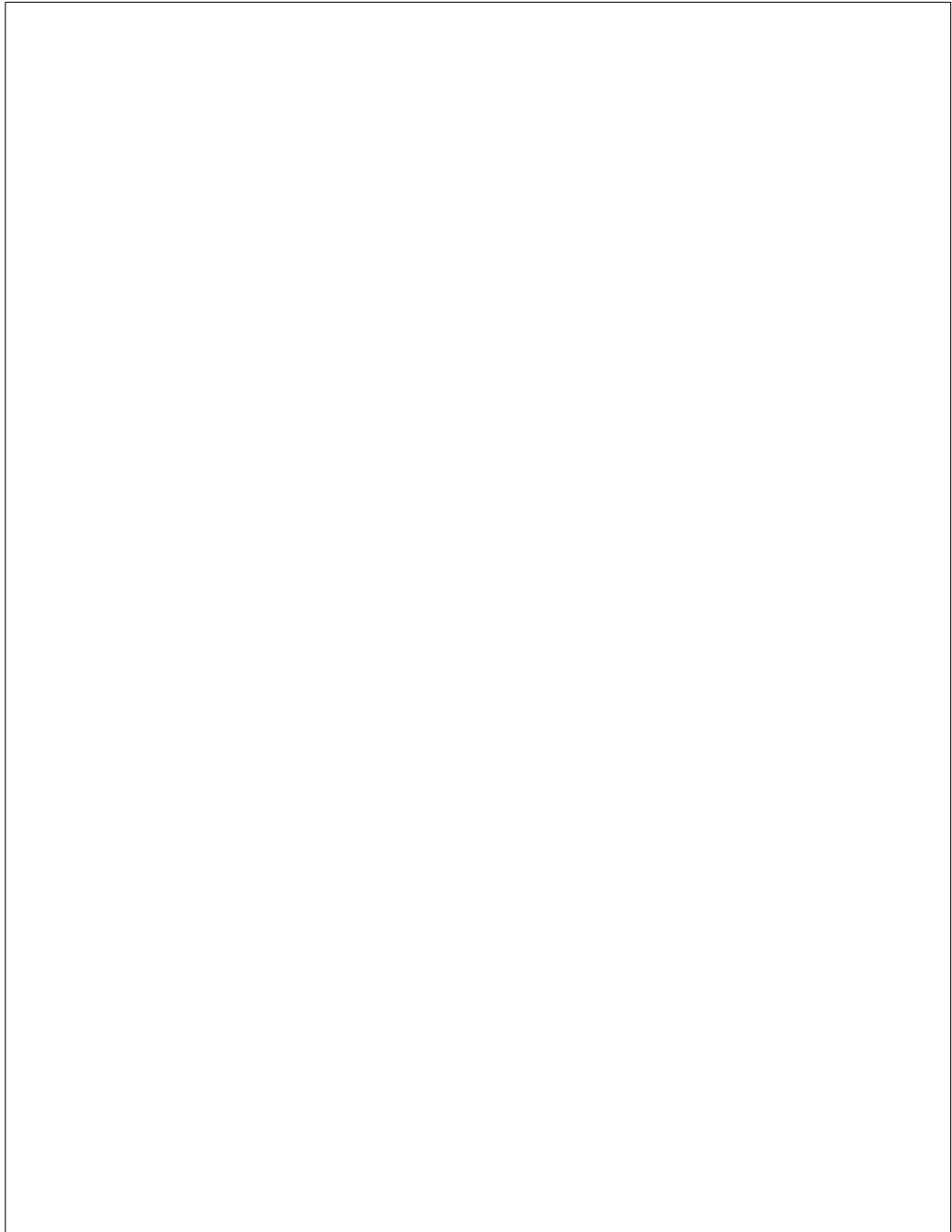
Please write clearly and properly.

Problem	Grade
1	
Total	

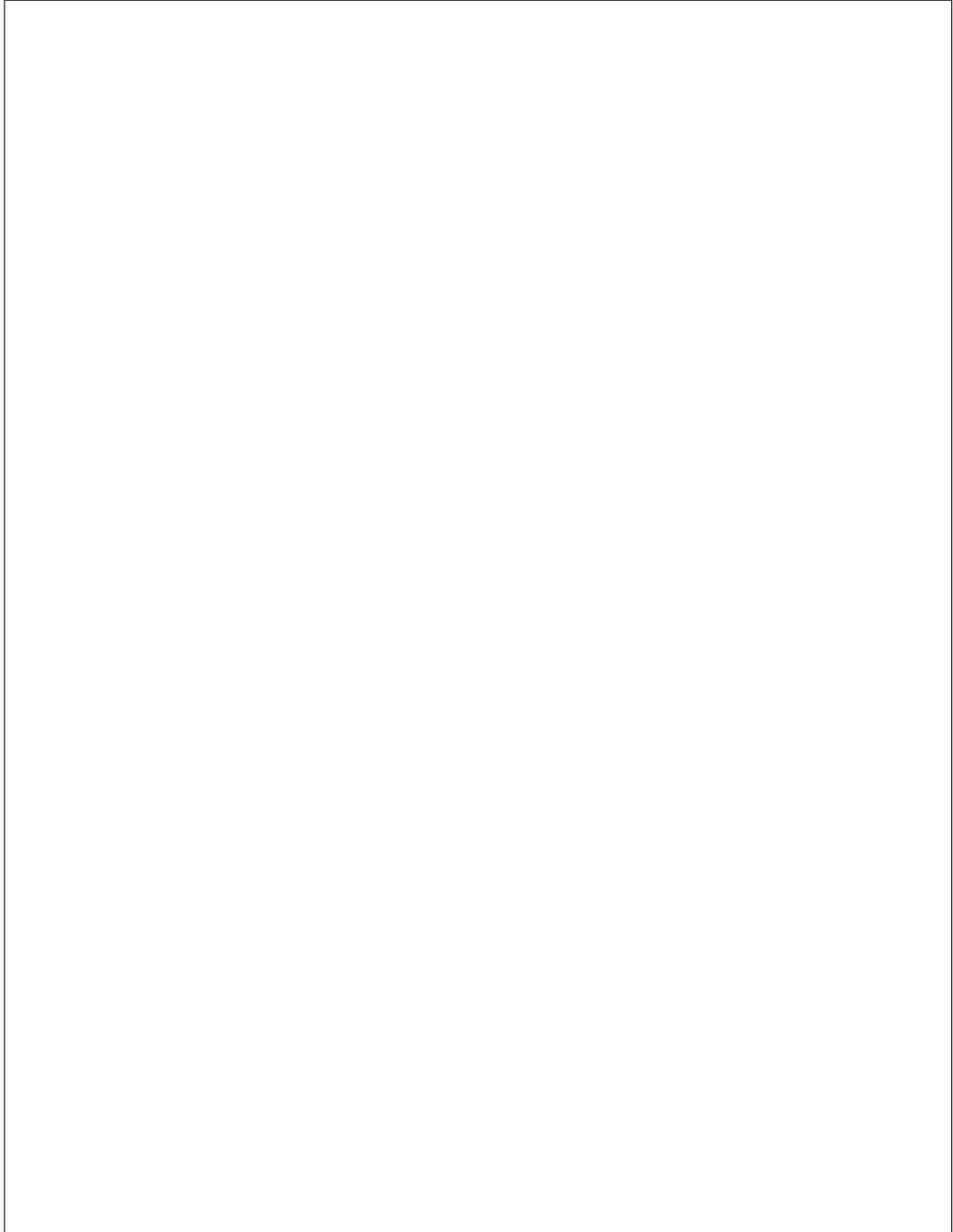
Problem 1 (~ 6 points.).

Find the integral of the function f along the path γ , where:

- (1) $f(z) = \bar{z}$ and γ is a counterclockwise parametrization of the circle $C(0, 1)$.



- (2) $f(z) = \cos(z^2) e^{3iz-4z^5}$ and γ is a counterclockwise parametrization of the boundary of the rectangle with vertices at $0, 2, 2 + i, i$.



(3) $f(z) = \bar{z} + z^2$ and γ is a counterclockwise parametrization of the circle $C(0, 1)$.

