MAT514 - Analysis for Teachers II - Summer II 2019

Sample Midterm Errors
As of 11:00AM 7/31

1. In problem 20: The solution is J, not M as is marked.

2. In problem 23: the region may be rewritten $|z - (2i - 1)| \leq 1$. Therefore, the circle and filled in disk of radius one should have center $(-1, 2)$ in the picture, and not $(1, 2)$ as depicted.

3. In problem 43, the parameterization listed begins at i, not 1, as the problem asks. If the path begins at 1, then a possible solution is given by the piecewise defined path

$$\gamma_1(t) = 1 + t(-1 - 1) = 1 - 2t \quad t \in [0, 1]$$
$$\gamma_2(t) = -1 + (t - 1)(i + 1) \quad t \in [1, 2]$$
$$\gamma_3(t) = i + (t - 2)(1 - i) \quad t \in [2, 3].$$

Email me if you find other mistakes.