
Homework 9
Due: Friday, October 27

1. [BC] 43.2
2. [BC] 43.4
3. [BC] 46.1ac, [BC] 46.2ac.
4. Let C be a simple, closed contour. Show that

$$\int_C \frac{dz}{z} = 0$$

if and only if 0 is *not* in the interior of the contour C .

5. [BC] 46.7