Assignment 11

1. Expand the given function in a Laurent series valid for the given annular domain.

   (a) $f(z) = \frac{\cos z}{z}$, $0 < |z|$

   (b) $f(z) = e^{-\frac{1}{z^2}}$, $0 < |z|$

2. Expand $f(z) = \frac{1}{z(z-3)}$ in a Laurent series valid for the given annular domain.

   $0 < |z| < 3$

3. Expand $f(z) = \frac{1}{(z-1)(z-2)}$ in a Laurent series valid for the given annular domain.

   $1 < |z| < 2$.

   Notice:

   Please write your Email title as "A{Assignment Number}-{Your Student ID}-{Your Name}".