

## Problem Set #7

Due Friday, December 5, 2008

1. Obtain the Laurent series and identify the residue for the indicated poles in each of the following functions:

(a)  $f(z) = \frac{e^{2z}}{z^3}$  at  $z = 0$

(b)  $f(z) = \frac{1}{z^2(z-1)^4}$  at  $z = 0, z = 1$