Homework Set # 6

1. Page 93 : # 1(b)(c)(e), 3(c), 11 .

2. Determine the sets where these functions are analytic and sketch these sets :

(a) $f(z) = \log(z^2 + 9)$

(b) $g(z) = L_0(z^2)$

(c) $h(z) = z^2 + \cos 4z - z^3 \log \left( 1 - \frac{1}{z} \right)$. 