

## Problems for Section 16.2

IDENTIFY THE SINGULARITIES OF THE FOLLOWING FUNCTIONS  
AT THE SINGULARITIES:

1.  $f(z) = (z^2+z+1)/(2z+1-i\sqrt{3})$

2.  $f(z) = 1/(z^4-1)$

3.  $(2z+1-i\sqrt{3})/(z^2+z+1)^2$

4.  $\exp(1/z)$