

Name _____ Complex Analysis, Spring 2017, Quiz 3

1) Find the derivative of $f(z) = z^5 e^{z^3}$.

2) Show that the function $f(z) = z^2 + (2 + i)z$ is analytic.

3) Find the derivative of $f(z) = \frac{3z^2+2}{5z^2-7z}$ at infinity.