

$$f(z) = e^{\frac{1}{\sin z}}$$

$$f'(z) = e^{\frac{1}{\sin z}} \cdot \left(-\frac{1}{\sin^2 z}\right) \cos z$$

$$6) \quad g(z) = \sin^3(2z) \exp(iz)$$

$$g'(z) = \exp(iz) \cdot 3 \sin^2(2z) \cos(2z) \cdot 2 +$$

$$+ \sin^3(2z) \cdot i \cdot \exp(iz)$$