Quiz 4 — Monday, July 19

Name:

1. (*4 points*) Compute the following. You do not need to justify your answers.

(a)
$$\frac{d}{dx}(5) =$$
 _____ (b) $\frac{d}{dz}(\cos z) =$ _____
(c) $\lim_{\theta \to 0} \frac{\sin \theta}{\theta} =$ _____ (d) $\frac{d}{dx}(2x^4 - 3x^{-3}) =$ _____

2. (3 *points*) Let $f(x) = \frac{e^x}{x^2}$. Compute f'(x).

3. (3 *points*) Let
$$w = \sin(z^2)$$
. Compute $\frac{dw}{dz}$.