## Quiz 4 — Monday, July 19

Name: $\qquad$

1. (4 points) Compute the following. You do not need to justify your answers.
(a) $\frac{d}{d x}(5)=$
(b) $\frac{d}{d z}(\cos z)=$
(c) $\lim _{\theta \rightarrow 0} \frac{\sin \theta}{\theta}=$ $\qquad$ (d) $\frac{d}{d x}\left(2 x^{4}-3 x^{-3}\right)=$ $\qquad$
2. (3 points) Let $f(x)=\frac{e^{x}}{x^{2}}$. Compute $f^{\prime}(x)$.
3. (3 points) Let $w=\sin \left(z^{2}\right)$. Compute $\frac{d w}{d z}$.
