$\qquad$

Show all work clearly and in order, and circle your final answers. Justify your answers algebraically whenever possible.

1. (2 points) Compute $\frac{d}{d x}\left[\frac{6 x^{3}+3}{2 x^{4}-2}\right]$.
2. (2 points) Compute $\frac{d}{d x}\left[\frac{3 x^{2}}{\sqrt[5]{x}}\right]$.
3. (2 points) Compute $\frac{d}{d x}\left[\frac{2 x}{\cos (x)}\right]$.
