$\qquad$

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

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

2. (2 points) Compute $\frac{d}{d x}\left[\frac{5 x^{2}}{\sqrt[4]{x}}\right]$.
3. (2 points) Compute $\frac{d}{d x}\left[\frac{7 x}{\sin (x)}\right]$.
