

Math 2300–013: Chain Rule Practice

Compute the following derivatives using the chain rule:

- $\frac{d}{dx} (3 - x^5)^4 =$

- $\frac{d}{dx} e^{5x^2+1} =$

- $\frac{d}{dx} \sqrt{\csc(x)} =$

- $\frac{d}{dx} \sin(\sqrt{e^x}) =$

- $\frac{d}{dx} \left(\frac{x^2 - 1}{3x + 2} \right)^3 =$