

MATH 2B/5B Prep: Chain Rule

1. Find $\frac{d}{dx} \arctan(\sqrt{x})$.
2. If $f(x) = \cos(e^{5x})$ then what is $f'(x)$?
3. Compute the derivative of $\frac{1}{g(x)}$ in terms of $g(x)$ and $g'(x)$.