

Calculus I – Derivative Practice

Find the derivative of each function

1. $f(x) = 2x^5 - x^{-3} - \sqrt[3]{x}$

2. $g(x) = \frac{\sin x}{x^3 - 1}$

3. $k(x) = \sqrt{x} \tan\left(x^4 + \frac{1}{x^4}\right)$

4. $s(x) = \sec(e^x + x^e - 37)$

5. $t(x) = \cos^2(x^{-2} - e^x + 3)$