

Derivative Practice: Inverse Trigonometric Functions

1. If $k(t) = 2^{\arcsin(\sqrt{t})}$, then what is $k'(t)$?

2. If $g(p) = \frac{p^2}{3} \arctan(5p - 1) + k$, then what is $g'(p)$?

3. If $f(x) = \frac{x}{\arcsin(e^x)}$, then what is $f'(x)$?

4. If $h(x) = \tan(\arctan(x))$, then what is $h'(x)$?