

Quiz 5

Name: _____ Row: _____

1. Find dy/dx :

a) $y = x^{(x^2+1)}$

b) $y = \arctan(\sqrt{x})$

2. Evaluate the integral $\int_0^\pi \frac{2}{\sqrt{4-x^2}} dx$.

3. Evaluate the limit $\lim_{x \rightarrow 0} \frac{\cos x - 1 - (x^2/2)}{x^4}$. (Hint: use L'hospital's rule several times.)