

Name: _____

February 26, 2015

1. Suppose $f(x) = (x^2 - \pi^2) \cos(x)$.

(a) $f'(x) =$

(b) Find the equation of the tangent line to the graph of $f(x)$ at the point $(\pi, f(\pi))$.

2. If $z = \frac{5}{w} + \frac{\tan(w)}{w+1}$, then $\frac{dz}{dw} =$

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1. Suppose $f(x) = \frac{\sin(x)}{x}$.

(a) $f'(x) =$

(b) Find the equation of the tangent line to the graph of $f(x)$ at the point $(\pi, f(\pi))$.

2. If $z = \sqrt{w} + 5(w+1)\sec(w)$, then $\frac{dz}{dw} =$