

Name: _____
AP Calculus AB

Date: _____
Ms. Loughran

Do Now:

1984 AB 2

Let f be the function defined by $f(x) = \frac{x + \sin x}{\cos x}$ for $-\frac{\pi}{2} < x < \frac{\pi}{2}$.

- (a) State whether f is an even function or an odd function. Justify your answer.
- (b) Find $f'(x)$.
- (c) Write an equation of the line tangent to the graph of f at the point where $x = 0$.