

Name: \_\_\_\_\_  
Date: \_\_\_\_\_ Period: \_\_\_\_\_ 2016  
AP Calculus Quiz : Differentiation – **NO CALCULATOR**

1.  $\frac{d}{dx}(3 + \pi \sin x) =$

2.  $\frac{d}{dx}(7x^{-3} - 5 \cos x) =$

3.  $\frac{d}{dx}(\tan x + 5x^{2/3}) =$

4.  $\frac{d}{dx}\left(\frac{6x^2 + 11x^4}{x^2}\right) =$

5.  $\frac{d}{dx}\left[\frac{d}{dx}(10x^6)\right] =$

6.  $\frac{d}{dx}((3x+1)^2) =$

7.  $\frac{d}{dx}\left(\frac{6}{7x}\right) =$

8.  $\frac{d}{dx}(x^2 \sec x) =$

9.  $\frac{d}{dx}(3 \cot x + \sqrt[5]{x^2}) =$

10.  $\frac{d}{dx}(e^2 x^3 - \csc x) =$

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