Name: Class Quiz 7 October 19, 2016

Find the following derivatives

a- $f(t) = \dfrac{t^2 + 3t^{\frac{3}{2}}}{\sqrt{t}}$

$f'(t) =$

b- $f(x) = \arctan(\sec(x))$

$f'(x) =$

c- $f(r) = e^2 + \pi^{\sqrt{15}}$

$f'(r) =$

d- $f(x) = e^{3+x^2+x} \cdot (x^{13})$

$f'(x) =$

e- $f(x) = (x^4 + 3x^3 - 2x + 17)^{83}$

$f'(x) =$

f- $f(x) = \Big(\sin(\cos^2(x))\Big)^3$

$f'(x) =$

g- $f(x) = \csc\left(e^x + 1.2x^2 + 15.4\right)$

$f'(x) =$

h- $f(x) = \dfrac{\cos(x) + \sin(x^2)}{\cot(x)}$

$f'(x) =$