AP Calculus AB **Trig Quiz Review WS #5**

Write down your 6 trig derivative rules below!

1) **2)**

3) **4)**

5) **6)**

1) If $y = -3xsec\,(5 - \pi x^9)$ find $\frac{dy}{dx}$

2) Given $y = \frac{11\cot(\pi x^5)}{6\csc(ex)}$ Find y'

3. Given $y = -\frac{\sqrt[3]{\csc^{11}(3e^2 - \pi^2 x)}}{7}$ Find y'

4. $ycscy = xcoty - y + 9y^2 - 3x + 11\pi^2$ find $\frac{dy}{dx}$

5) If the position of a particle is x(t) = 7cot($5x$)

a) Find a(t)

b) find acceleration at t = $\pi/6$

6. Find the tangent line equation for $f(x) = 2csc^3(7x)\ at\ x = \frac{\pi}{6}$