Name: _____ MATH 200 – Quiz 6 ♣

I'm in the Thurs11 Thurs12 Thurs1 or Fri10 recitation. (Circle one) October 3, 2012

1. Find the derivative of $f(r) = 5r - \cos(r) + \dfrac{1}{r}$.

2. Find $\dfrac{dy}{dx}$ if $y = \sqrt{\dfrac{x^2+1}{e^x}}$.

3. $\dfrac{d}{dx}\left[\, x^4 \tan(\pi x) \,\right] =$

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1. Find the derivative of $f(r) = 3e^r - \dfrac{1}{r^2} + \sin(r)$.

2. $\dfrac{d}{dx}\left[\, e^{x^2 \sec(x)} \,\right] =$

3. Find $\dfrac{dy}{dx}$ if $y = \dfrac{x^2+1}{e^{\pi x}}$.

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1. Find the derivative of $f(\theta) = 5\theta - \cot(\theta) + \sqrt{\theta}$.

2. $\dfrac{d}{dx}\left[\left(\dfrac{x^2}{e^x+1}\right)^{100}\right] =$

3. Find $\dfrac{dy}{dx}$ if $y = x^3\sec(\pi x)$.

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1. Find the derivative of $f(s) = \tan(s) - \dfrac{3}{s^2} + 2e^s$.

2. Find $\dfrac{dy}{dx}$ if $y = \sec(x^2e^x)$.

3. $\dfrac{d}{dx}\left[\dfrac{e^{\pi x}}{x^2+1}\right] =$