MATH 141: QUIZ 5 SECTIONS 3.6 AND 3.7

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 $\bf No\ phone\ or\ calculator.$ You must show all work to receive full credit. Be sure to make reasonable simplifications.

1. (5 points) Find the second derivative, f''(x), of $f(x) = \cot(4x)$.

Date: February 28, 2018.

2. (5 points) Using implicit differentiation, find $\frac{dy}{dx}$ from the equation below:

$$x^2y = 5y + x - 2$$