## Calculus 1, Handwritten Homework 7 — Spring 2022

| NAME   | STUDENT NUMBE  | R  |
|--|--|--|
| your claims using the number, as is done in Give precise values, n in the box. Each num scan your solutions, a the online syllabus for | e definitions and theorems in the range of the examples in the notes and violated numerical (calculator) approximately bered problem is worth 5 points. Present submit the scan of (in PDF) to | ach as equal signs). Give justifications for notes and book (quote them by name or deos, and in the solutions posted online). ations. If provided, put your final answer rint out this document, work the problem, to the D2L DropBox by the deadline. See the or from the internet! This is is conduct. |
|  | , , - , ,  | ) normal to the curve $x^2 \cos^2 y - \sin y = 0$ uare bracket notation. This is Exercise 42   |
|  |  |  |

2. Consider  $y = \sqrt[3]{\frac{(4x-2)\sec x}{(x^2+1)(2x+3)}}$ . Use logarithmic differentiation to find dy/dx. Use the square bracket notation.

**3.** Find dy/dx:  $\ln xy = e^y \cot x$ . Use the square bracket notation.