

Please read the following instructions carefully:

- There are **three problems** in this quiz.
- The point distribution is given in the table below.
- Please write each solution on a separate page.
- This is a group quiz. Feel free to discuss the problems with your teammates. **You must, however, write and turn in your own work.**
- Upload your work to Gradescope.

Question:	1	2	3	Total
Points:	2	4	4	10

1. (2 points) Simplify the following expression:

$$\frac{(x^5)(2x^2)(5x)}{2x^2}$$

2. (4 points) Find the equation of the tangent line to  $y = x^3 + x + 1$  when  $x = 1$ .
3. (4 points) Calculate the derivative of  $f(x) = (6x^2 + 2x + 1)^4$ . Don't simplify the answer.