Computing Derivatives Study Group Activity
(Groups of 3 or 4 people)

Purpose of activity: Gain a deeper understanding of computing derivatives by solving a problem on your own and then teaching it to your peers.

Due Date: Monday September 24th .

Individual Portion: Everybody in the group should choose ONE of the problems below. Solve your problem on your own before you meet with your group.

$$\frac{d}{dx}\sin(x) \cdot \sqrt[3]{x + \sqrt{x}}$$

$$\frac{d^{73}}{dx^{73}}\cos(2x)$$

$$\frac{d}{dx}\tan\left(1 - \sqrt{x}\right)$$

$$\frac{d}{dx}\frac{(x + \lambda)^4}{x^4 + \lambda^4}$$

Group Portion: Take turns teaching your problem to the rest of the group. Use a whiteboard to clearly show each step to your groupmates. Record your teaching using a phone or camera.

Assessment: Upload your video to Blackboard.