

Basic Integration Study Group Activity

(Groups of 3 or 4 people)

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

Due Date: End of Thanksgiving Break (25th at midnight)

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.

1. Find $\int 3x^2 + 4x + 1 dx$
2. Find $\int_2^3 x^2 + 2 dx$
3. Find $\int_0^{\frac{\pi}{4}} \cos(2x) dx$
4. Find $\int_0^{\ln(3)} e^{2x} dx$

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.