

**Homework 8**  
**Calculus II**

**Due February 26, 2026**  
**Prof. Nollet**

Section 8.1 #6, 8, 9, 11, 21, 23, 24, 33, 61, 64.

Hints:

#6, 8 Straightforward.

#9 Integrate by parts twice

#11 Similar to class example, only one way to choose  $u$  and  $dv$  here!

#21, 23, 24 For these you will need to technique shown in class where the integral folds back on itself.

#33 By parts twice.

#61 (a) is a question from Exam 1, use parts. For part (b), you can use your answer from part (a).

#64 (a) You can use your answer from #11. Use parts for part (b).