Wednesday, January 18

Announcements

WeBWorK #2 is due tonight at 9pm

- Covers material from “Unit 2”—see syllabus web page

Office hours: location update (permanent change)

- Wednesdays 11:00am–12:30pm, room GEOG 242
- Thursdays 1:30–3:00pm, room MATH 212

Quiz #1 will take place here in class on Friday, January 20

- Covers material from Units 1–2 (same material as WeBWorKs #1–2)
- One short answer question (2 pts), two long answer questions (4 pts each)
- You must bring your student ID to class on every quiz day
- You must take the quiz in the section you’re registered in
- Students not meeting the above two requirements will receive a 0 on the quiz

What to expect during the quiz

Right before the quiz

- At 3:20, I'll stop lecturing, and we'll get ready for the quiz
- Put away all books, notes, calculators; close bags
- Turn off your phones and keep them out of sight
- Pass us your student ID (UBCcard) if asked
- When you receive your quiz, write your name and student number, and bubble in your student number
- Do not open the quiz until told to do so

What to expect during the quiz

During/after the quiz

- The quiz will begin at 3:25, and you'll have 20 minutes
- As soon as the quiz begins, turn to the back page and write your name and student number
- Do great on the quiz!
- Even if you finish the quiz early, stay quietly in your seat
- When the quiz ends, close your quiz and stop writing
- Do not stand up or start talking until all quiz papers have been collected
- Collect your ID from the instructor if necessary
- Academic misconduct? No, you know better

Clicker Question 2 from Monday

Find a matching pair

Suppose that F is an antiderivative of f. Of the following four expressions, which two are equal to each other? (Hint: what is the derivative of $F(g(x))$? Use FTC part 2.)

A. $\displaystyle\int_a^b f(g(x))g'(x)\,dx = F(g(x))\Big|_a^b = F(g(b)) - F(g(a))$

B. $\displaystyle\int_a^b f(u)\,du = F(u)\Big|_a^b = F(b) - F(a)$

C. $\displaystyle\int_{f(a)}^{f(b)} g'(x)\,dx = g(x)\Big|_{f(a)}^{f(b)} = g(f(b)) - g(f(a))$

D. $\displaystyle\int_{g(a)}^{g(b)} f(u)\,du = F(u)\Big|_{g(a)}^{g(b)} = F(g(b)) - F(g(a))$

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Clicker Questions

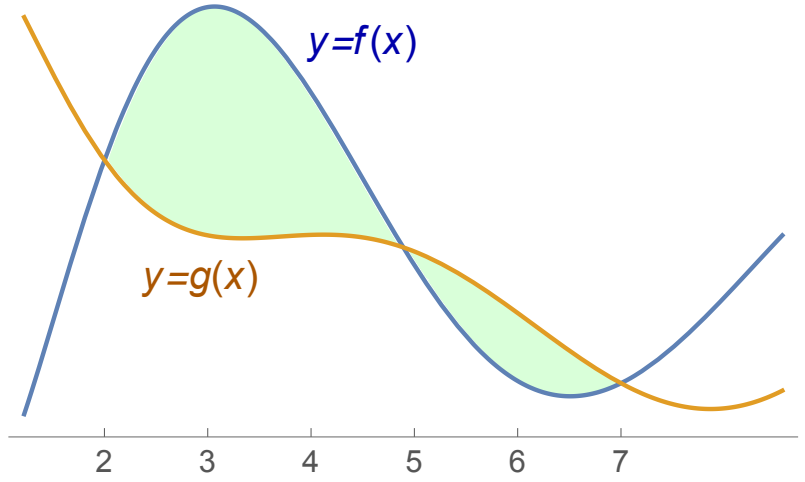
Clicker Question 1

Race to the top

Suppose we know:

- $\int_2^5 f(x)\,dx = 11$
- $\int_2^5 g(x)\,dx = 7$
- $\int_5^7 f(x)\,dx = 2$
- $\int_5^7 g(x)\,dx = 3$

What is the shaded area?



A. 5 $= \int_2^5 (f(x) - g(x))\,dx + \int_5^7 (g(x) - f(x))\,dx$

B. 14

C. 23

D. 3

E. none of the above