Friday, January 29

Announcements

WeBWorK #4 is due Wednesday, February 3 at 9pm

- Covers material from “Week 4”—see syllabus on course web page

Pick up your quiz papers in the Math Learning Centre

Quiz #2 will take place today, starting halfway through class

- You must have your student ID
- You must take the quiz in the section you’re registered in
- Completely closed book, no phones or calculators, etc.

Thank you for your cooperation with the exam-conditions procedures (especially staying in your seats, and not talking, until all quiz papers have been collected). It helps us a lot! and keeps the quizzes efficient.

Friday, January 29

Clicker Questions

Clicker Question 1

Double-angle formula

Which identity is a correct identity?

A. $\cos 2x = 2\cos^2 x - 1$

B. $\cos 2x = \cos^2 x - \sin^2 x$

C. $\cos 2x = 1 - 2\sin^2 x$

D. $\cos 2x = 2\sin x \cos x$

E. none of the above

Three correct answers!

These formulas are all equivalent, because

$$\sin^2 x + \cos^2 x = 1.$$

Note that answers A and C can be rewritten as

$$\cos^2 x = \tfrac{1}{2}(1 + \cos 2x)$$
$$\sin^2 x = \tfrac{1}{2}(1 - \cos 2x).$$

Answer D was misleading: actually $\sin 2x = 2\sin x \cos x$.

Quiz #2: Friday, January 29

Exam conditions

- Put away all books, notes, calculators, scratch paper
- Turn off your phones and keep them out of sight
- Pass us your student ID (UBCcard) if asked
- Take the top quiz in the stack passed to you
- Do not start writing until told to do so
- Even if you finish the quiz early, stay in your seat
- When the quiz ends, do not start talking until all quiz papers have been collected
- Collect your ID from the instructor if necessary