

Announcements

Did you request a Quiz #4 regrade?

- I have your paper here—come claim it (with student ID)

WeBWorK #12 is now open

- Due Wednesday, April 5 at 9pm

You can retrieve your Quiz #5 online

- Go to quizzes web page, click the link, follow instructions
- Scores will appear on Connect within 24 hours
- If you want a quiz regrade, follow the instructions on the quizzes web page

Final exam

- Friday, April 21 at noon
- For our section: Osborne gym

Friday, March 31

Clicker Questions

Clicker Question 1

Recognizing power series

Which of the following series converges to $1/2$?

A.
$$\sum_{n=0}^{\infty} (-1)^n \frac{(\pi/6)^{2n+1}}{(2n+1)!} = \sin \frac{\pi}{6} = \frac{1}{2}$$

B.
$$\sum_{n=0}^{\infty} (-1)^n \frac{(\pi/3)^{2n}}{(2n)!} = \cos \frac{\pi}{3} = \frac{1}{2}$$

C.
$$\sum_{n=0}^{\infty} \frac{(-\ln 2)^n}{n!} = e^{-\ln 2} = \frac{1}{2}$$

D.
$$\sum_{n=1}^{\infty} -\frac{(1 - \sqrt{e})^n}{n} = \ln(1 - (1 - \sqrt{e})) = \frac{1}{2} \text{ (note: } |1 - \sqrt{e}| < 1)$$

E.
$$\sum_{n=1}^{\infty} \frac{4^{n-3/2}}{5^n} = \frac{4^{-1/2}/5^1}{1 - 4/5} = \frac{1}{2} \text{ (note: } |\frac{4}{5}| < 1)$$