E2 Info

This Week
Monday: We’ll start the chain rule, §14.5.
Wednesday: We’ll finish the chain rule, §14.5
Thursday: Everyone will take E2 in TA session
Friday: Double Integrals §15.1

Book
15.2 p1008 3, 5, 19
15.3 p1014 1, 7, 9, 13, 15, 17, 19, 21

Partials
1) Let $f(x, y) = \frac{x^2 - y^2}{x^2 y^2}$. Does $f$ satisfy the PDE:

$$\frac{\partial^2 f}{\partial x \partial y} = 0$$

2) Let $f(x, y) = \frac{x^2 - y^2}{x^2 y^2}$. Does $f$ satisfy the PDE:

$$\frac{\partial^2 f}{\partial x \partial y} = 0$$

1) Let $z = f(x, y); x = r \cos \theta, y = r \sin \theta$.
a) Draw the tree diagram for these quantities
b) State the chain rule for finding $\partial f/\partial r$
c) Use the chain rule to compute $\partial f/\partial r$.
   (you don’t have a formula for $f$, so you can’t simplify

Finals

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<tr>
<th>Meets</th>
<th>MWF 10:00AM-11:00AM</th>
<th>RLM 4.102 TTH 200PM-300PM</th>
<th>CPE 2.206</th>
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<td>Date/Time:</td>
<td>FRIDAY, DECEMBER 13, 9-12 N</td>
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<th>Meets</th>
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