Final Exam Study Guide

Disclaimer: The following is not intended to be an exhaustive review of everything you should master to do well on the final exam. Rather, it is meant to supplement your working out of the homework problems and practice exam questions by focusing on terminology and theoretical concepts that might otherwise fall through the cracks. I also am not inside the instructor's mind and cannot say how close the exam questions will be to this material. These are simply the concepts that jump out to me based on my past experience teaching the class that I thought important enough to highlight.

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Terms to Know
vector field (p. 253)
radial vector field (p. 255)
conservative vector field (sometimes called gradient field, p. 258)
potential function (p. 258)
line integral of f over C (p. 267)
line integral of a vector field (p. 272)
closed curve, simple curve (p. 279)
open region, connected region, simply connected region (p. 280)
circulation of the vector field F around C (p. 281)
surface integral of f over S (p. 298)
flux (p. 306)
surface integral of F over S (p. 308)
curl of a vector field (p. 321)
irrotational vector field (p. 321)
consistency of orientation between a surface and its boundary curve (p. 327)
divergence of a vector field (p. 333)
incompressible vector field (p. 333)
Cross-Partial Property of Conservative Vector Field (p. 260)
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Theorems to Know: Make sure to know the hypotheses as well as the conclusions!

Cross-Partial Property of Conservative Vector Field (p. 260)

Fundamental Theorem of Conservative Vector Fields (p. 288)

Green's Theorem (p. 314)

Stokes' Theorem (p. 327)

Divergence Theorem (p. 337)

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