Errata for “Partial Differential Equations”, AMS Press
Third printing of Second Edition (2023)
by Lawrence C. Evans

These corrections are for mistakes present in the third printing of
the second edition.

Last modified: February 8, 2024.

CHAPTER 1

CHAPTER 2
Page 36, line 7: To show that $u$ defined by formula (33) is smooth,
we need to justify differentiating under the integral. I leave this as an
exercise, with the hint that

$$|x + hz|^2 \geq (x_n + hz_n)^2 \geq \gamma > 0$$

for $h$ and $|z|$ small enough.

CHAPTER 3

Page 151, line -7: $v_{xx}$ should be $v_{xx}^r$.
Page 151, line -3: $v_x$ should be $v_x^r$.

CHAPTER 4

Page 244, line 2: Change $u_l^{x_j}$ to $u_l^{x_j}$ and multiply the right-hand side
by the vector $(1, \ldots, 1)$.

Page 244, lines 10-13: Change all $r$ to $s$.

CHAPTER 5

CHAPTER 6

CHAPTER 7

CHAPTER 8
CHAPTER 9

CHAPTER 10

CHAPTER 11

CHAPTER 12

APPENDICES, INDEX, REFERENCES

Thanks to Nina Allmeier, Arjun Sudan and Yuxiao Yan for finding mistakes and suggesting corrections.

Please let me know about any other errors you find, at evans @math.berkeley.edu.