Physics 110B, Problem Set 7

Due February 28, 11:59pm

Upload to Gradescope

1   Griffiths Problem 10.13 5th edition, 10.13 4th edition

2   Griffiths Problem 10.14 5th edition, 10.14 4th edition

3   Griffiths Problem 10.37 5th edition, Not in the 4th edition, but reproduced below

Two charges $\pm q$ approch the origin at constant velocity from opposite directions along the x-axis, They collide and stick together, forming a neutral particle at rest. Sketch the electric field before and shortly after the collision. How would you interpret the field after the collision, physically.