

Physics 110B, Problem Set 6

Due Wednesday, November 13, 11:59pm

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- 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 $\pm q$ approach 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.