

Physics 122  
Chapter 16 Problem Assignment  
*Some problems have additions given in the footnotes.*

Questions from the text      4, 6, 12, 20

Problems from the text      17\*, 20, 27, 35<sup>†</sup>, 67

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\* Only find the force on charge  $Q_1$ .

† What is the approximate result if  $x$  is much larger than  $a$ ? Compare this to the field from a point charge. You may find this approximation difficult to do. If so, you should see the posted solution to the problem. I am interested that you see the result; I will not be asking you to use the technique.