Examination like tasks workshop 1 (Lecture 1 and 2)

A/
Consider a charged ring with radius R. Where in the symmetry axis through the ring is the field largest?

B/
How does the field depend on distance from two wires of opposite charge, parallel and placed on (small) distance, a, from each other. Consider at least two different directions

C/
Calculate the field between two oppositely charged rods placed end to end with an airspace length d between.

D/
Consider the line connecting two oppositely charged spheres with charges q1 and q2= -2q1 at distance d. Where in this line is the field weakest (only part of the line between them considered)? Is the field zero somewhere else?

D'/
Consider the line connecting two charged spheres with charges q1 and q2= 2q1 at distance d. Where in this line is the field weakest (only part of the line between them considered?