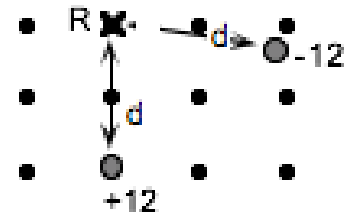


Physics 123 Prelab 2: Electric Field

Physics 123: Electricity and Magnetism

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1. Consider the situation at right, in which a $+1$ -unit and a -1 -unit charge are equidistant from point R as shown. If the -1 -unit charge were removed, would the magnitude of the net electric field at point R *increase*, *decrease*, or *remain unchanged*? Explain.



2. Three charged particles are arranged on the grid as shown. Two of the particles have a charge of -1 unit, while the third has a charge of $+1$ unit. Draw an arrow on the diagram to show the direction of the net electric field at point R. Explain your reasoning and/or show your work.

