

Pg. 566, problem 2

Pg. 582, problem 20

Pg. 629, problems 60 and 69

Pg. 630, problem 75

A point P is located at the origin of a two-dimensional plane. It is surrounded by a point charge with a charge of -200.0 pC located 25.0 cm to the left on the x -axis, a point charge with a charge of -64.0 pC located 10.0 cm to the right on the x -axis, and a point charge with a charge of $+45.0 \text{ nC}$ located 90.0 cm below on the y -axis. Determine a) the magnitude, and b) the direction of the net electric field measured at point P .