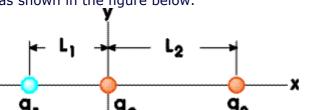
Three point charges, $q_1 =$ -4.10 nC, $q_2 =$ 5.11 nC and $q_3 =$ 3.46 nC are aligned along the x axis as shown in the figure below.



Assume that $L_1 = 0.461$ m and $L_2 = 0.824$ m. Calculate the electric field at the position (2.12, 0).