Consider the $x$-component of the electric field.

• Electric field at point $P_1$:

$$E = E_1 + E_2 = \frac{kq_1}{(7m)^2} + \frac{kq_2}{(3m)^2} = 1.47\text{N/C} + 12.0\text{N/C} = 13.5\text{N/C}.$$

• Electric field at point $P_2$:

$$E = E_1 + E_2 = \frac{kq_1}{(3m)^2} - \frac{kq_2}{(1m)^2} = 7.99\text{N/C} - 108\text{N/C} = -100\text{N/C}.$$