



$$F_{E} = \frac{kq_{1}q_{2}}{r^{2}} \qquad q_{1} = \frac{F_{E} r^{2}}{kq_{2}}$$

$$= \frac{(0.4957)(0.80)^{2}}{(9 \times 10^{9})(4 \times 10^{-6})} = \frac{8.8 \times 10^{-6} C}{}$$