

$$|FAC| = \frac{k9A9c}{(2d)^2} = 117.1N$$
 attraction
 $|FAB| = \frac{k9A9R}{d^2} = 264.5N$ rejection

$$|\text{FeC}| = \frac{k989c}{d^2} = 299.81V$$
 attraction

$$|F_{AC}| = \frac{k9.92c}{d^2} = 48.4$$

$$|F_{AC}| = |F_{AC}| = 48.4$$

$$|F_{BC}| = |F_{AC}| = 48.4$$

$$|F_{C}| = |F_{AC}| = 48.4$$

$$|F_{C}| = |F_{AC}| = 48.4$$

$$|FAC| = \frac{k9A9C}{d^2} = 48.41V$$

 $|FRC| = |FAC| = 48.41V$

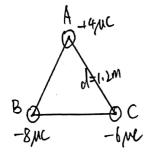
Direction: Along the perpendicular bisector of opposite side activarily.

$$|F_{BO}| = \frac{k989D}{(\sqrt{2}d)^2} = 1.62 \times 10^7 N$$

Direction: Along the diagonal outwardly.

Direction: Along the diagonal inwardly





$$|f_{AB}| = \frac{k g_A g_B}{d^2} = 0.2 N$$

$$|FAC| = \frac{k9A9c}{d^2} = 0.15N$$

$$|FBC| = \frac{k9R9c}{d^2} = 0.3 N$$

$$|FA| = 0.304N$$
 $0.15N$
 $\theta = 25.3^{\circ}$

1 It is obvious that charge C is between A and B with positive charge + q.

$$|FRC| = \frac{k9.300}{(1-d)^2}$$

=>
$$d = \frac{\sqrt{3}-1}{2} 1$$

$$9 = \frac{3}{25+4} Q_0 = (3-\frac{3}{2}F)Q_0$$

Distance a.

$$F = \frac{k\Omega 9}{\alpha^2 + \frac{d^2}{4}}$$

$$F_{\text{not}} = \frac{kQ_1}{\alpha^2 + \frac{\alpha^2}{4}} \cdot \sqrt{\alpha^2 + \frac{\alpha^2}{4}} \cdot \lambda = 2kQ_1 \cdot \frac{\alpha}{(\alpha^2 + \frac{\alpha^2}{4})^{\frac{3}{2}}}$$

$$\int_{\mathbf{M}} d\mathbf{r} = 0 \Rightarrow \alpha = \frac{\sqrt{2}}{4} d$$