$$3.2) \xrightarrow{3_1} \xrightarrow{g_2} \xrightarrow{g_3}$$

$$W_{j} = \frac{1}{4\pi\epsilon_{0}} \sum_{i} \frac{8i \cdot 8i}{|(x_{i} - x_{j})|}$$

1.) What is the work needed to move g. From
$$\infty$$
 to x , ?

$$W_{2} = \frac{1}{4\pi\epsilon_{o}} \left(\frac{8.3z}{|x_{1} - x_{2}|} + \frac{833z}{|x_{3} - x_{2}|} \right)$$

$$VJ_3 = \frac{1}{4\pi c} \left(\frac{819_3}{|X_1 - X_3|} + \frac{9^2 3^3}{|X_2 - X_3|} \right)$$