c) We are to compute the total force acting on the plane by directly integrating over σ<sup>2</sup>/2ε<sub>0</sub>. Let us proceed to compute the force directly

$$F = \int d\alpha \frac{\sigma^2}{2\epsilon_0} = \frac{q^2 d^2}{8\pi^2 \epsilon_0} \int \frac{r dr d\theta}{(r^2 + d^2)^{3/2}},$$

$$= \frac{q^2 d^2}{8\pi^2 \epsilon_0} \int \frac{d\alpha d\theta}{a^{3/2}},$$

$$= -\frac{q^2 d^2}{16\pi \epsilon_0} \frac{1}{a^2} \Big|_{d^2}^{\infty},$$

$$= -\frac{q^2 d^2}{16\pi \epsilon_0 d^4}.$$

$$\therefore F = -\frac{q^2}{4\pi \epsilon_0} \frac{1}{(2d)^2} \hat{z}.$$

d) We are to compute the work required to remove the charge from its position to infinity.

By direct computation, we see that the work required is

all We are to find the pretented function describing the lands of the sphere

$$W = -\int_{d}^{\infty}\!\! F d\ell = -\frac{q^2}{16\pi\epsilon_0}\int_{d}^{\infty}\!\! \frac{dz}{z^2} = \frac{q^2}{16\pi\epsilon_0} \left. \frac{1}{z} \right|_{d}^{\infty} = \frac{q^2}{16\pi\epsilon_0 d}.$$

e) Let us compute the potential energy of the charge-image-charge system and compare this result with that of part (d) above.

From the definition of potential energy, we see that

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$$U = \frac{q^2}{8\pi\epsilon_0 d}$$
.

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This is precisely twice the energy required to pull the charge q to infinity. This is

in only the electric field of a single charge. Furthermore, names that the position of a Thin beginning of the long charge deposits on the charge and position of a Thin beginning that it is required to consider a marriag in a charge field position of the quantum of a point charge a bound insule a belief position of a point of the position of a point charge a bound insule a belief an execution.

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