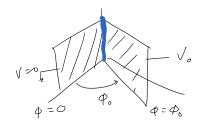
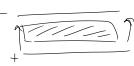
If we are sad, the moon

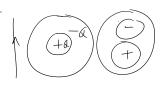
Thick What Hanh



$$V=0$$
 & at $\phi=0$
 $V=V_{\delta}$ at $\phi=0$

$$\sqrt{\frac{2}{\sqrt{2}}} \sqrt{2} = -\frac{9}{60}$$





$$V = \frac{1}{4\pi 60} \frac{1}{4\pi 60}$$

$$r_{+}^{2} = r + \left(\frac{\lambda}{2}\right)^{2} - 2 \cdot r \cdot \frac{\lambda}{2} \cos \theta$$

$$= r^{2} + \frac{\lambda}{4} - r \lambda \cos \theta$$

$$r_{-}^{2} = r^{2} + \frac{\lambda}{4} + r \lambda \cos \theta$$

$$\frac{Y}{\frac{1}{r_{+}}} = \frac{1}{\left[\frac{r^{2}+A^{2}-r_{+}}{4}-r_{+}+A^{2}\right]^{1/2}}$$

$$= \frac{1}{r_{+}}\left[1-\frac{A}{r_{+}}\cos\theta+\frac{A^{2}-1}{4r^{2}}\right]^{1/2}$$

$$= \frac{1}{r_{+}}\left[1+\frac{A}{2r_{+}}\cos\theta+\cdots\right]$$

$$V = \frac{d}{4\pi \epsilon_0} \left(\frac{1}{r_+} - \frac{1}{r_-} \right)$$

$$= \frac{d}{4\pi \epsilon_0} \left(\frac{1}{r_+} - \frac{1}{r_-} \right)$$

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$$= -\left(\frac{r_{co}\theta}{4\pi \epsilon_0} - \frac{(-2)}{r_-^2} + \frac{1}{r_-} + \frac{2V}{r_-} + \frac{2V}{r_-} + \frac{2V}{r_-} \right)$$

$$= -\left(\frac{r_{co}\theta}{4\pi \epsilon_0} - \frac{(-2)}{r_-^2} + \frac{1}{r_-} + \frac{2V}{r_-} + \frac{2V}{r_-} \right)$$

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$$= -\left(\frac{r_{co}\theta}{4\pi \epsilon_0} - \frac{r_{co}\theta}{r_-^2} + \frac{2V}{r_-^2} + \frac{2V}{r_-^2} + \frac{2V}{r_-^2} \right)$$

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$$= -\left(\frac{r_{co}\theta}{4\pi \epsilon_0} - \frac{r_{co}\theta}{r_-^2} + \frac{2V}{r_-^2} + \frac{2V}{r_-^2} \right)$$

$$= -\left(\frac{r_{co}\theta}{4\pi \epsilon_0} - \frac{r_{co}\theta}{r_-^2}$$

$$\frac{(\vec{r} - \vec{r}')}{|\vec{r} - \vec{r}'|^{3}} = -\nabla\left(\frac{1}{|\vec{r} - \vec{r}'|}\right)$$

$$\nabla\left(\frac{1}{|\vec{r} - \vec{r}'|}\right) = -\frac{\lambda}{\lambda^{2}} \qquad \lambda = \vec{r} - \vec{r}'$$

$$\nabla'\left(\frac{1}{|\vec{r} - \vec{r}'|}\right) = \frac{(\vec{r} - \vec{r}')}{|\vec{r} - \vec{r}'|^{3}}$$

$$V = \frac{1}{4 \pi \epsilon_{0}} \iint \vec{P} \cdot \nabla'\left(\frac{1}{|\vec{r} - \vec{r}'|}\right) kz'$$

$$\nabla'\left(\vec{P} + \frac{1}{|\vec{r} - \vec{r}'|}\right) = \vec{P} \cdot \nabla'\left(\frac{1}{|\vec{r} - \vec{r}'|}\right) + \frac{1}{|\vec{r} - \vec{r}'|} \nabla' \cdot \vec{P}$$

$$\vec{P} \cdot \nabla'\left(\frac{1}{|\vec{r} - \vec{r}'|}\right) = \nabla'\left(\frac{\vec{P}}{|\vec{r} - \vec{r}'|}\right) + \frac{1}{|\vec{r} - \vec{r}'|} \nabla' \cdot \vec{P}$$

$$V = \frac{1}{4 \pi \epsilon_{0}} \iint \vec{D} \cdot \left(\frac{\vec{P}}{|\vec{r} - \vec{r}'|}\right) kz' + \frac{1}{4 \pi \epsilon_{0}} \iint \vec{\nabla} \cdot \vec{P} \cdot kz'$$

$$V = \frac{1}{4 \pi \epsilon_{0}} \iint \vec{D} \cdot \left(\frac{\vec{P}}{|\vec{r} - \vec{r}'|}\right) kz' + \frac{1}{4 \pi \epsilon_{0}} \iint \vec{\nabla} \cdot \vec{P} \cdot kz'$$

$$V = \frac{1}{4\pi\epsilon_0} \iiint \frac{f \, d\tau}{|\vec{r} - \vec{r}'|} \quad V = \frac{1}{4\pi\epsilon_0} \iint \frac{\sigma \, dA}{|\vec{r} - \vec{r}'|}$$

