As we see previously:

Now we want to knote that:
$$\frac{1}{w_z} = w_1 \qquad \frac{1}{w_1} = w_2 \qquad \frac{1}{3k_1} = -\left(\frac{3}{\rho}\right) \cdot \sqrt[3]{k_2}$$

$$\frac{1}{3k_2} = -\left(\frac{3}{\rho}\right) \cdot \sqrt[3]{k_1}$$

$$(1)\sqrt{\frac{1}{w_z}} = \omega_1$$
As $\omega_z = -\sqrt{3}i - 1$

Proof:

$$\frac{1}{w_{2}} = -\left(\frac{z}{\sqrt{3}i+1}\right) = -\left(\frac{z}{\sqrt{3}i+1}\right) \cdot \left(\frac{\sqrt{3}i-1}{\sqrt{3}i-1}\right) \\
= -\frac{z}{(\sqrt{3}i)^{2}-1^{2}} \cdot \left(\sqrt{3}i-1\right) = -\frac{z}{(-3-1)} \cdot \left(\sqrt{3}i-1\right)$$

$$= \frac{1}{2} \cdot (\sqrt{3}i - 1) = \frac{\sqrt{3}i - 1}{2} = \omega_1$$
(2) $\frac{1}{\omega_1} = \omega_2$

As
$$w_1 = \frac{\sqrt{3}i - 1}{2}$$

$$\frac{1}{2} = \frac{2}{2} = \frac{2}{2} \cdot (\sqrt{3}i + 1)$$

$$\frac{1}{w_{1}} = \frac{2}{\sqrt{3}i - 1} = \frac{2}{\sqrt{3}i + 1}$$

$$= \frac{2(\sqrt{3}i + 1)}{\sqrt{3}i + 1} = \frac{2(\sqrt{3}i + 1)}{-3 - 1}$$

$$= \frac{2(\sqrt{3}i + 1)}{\sqrt{3}i + 1} = \frac{2(\sqrt{3}i + 1)}{-3 - 1}$$

$$=-\frac{(5)i+1}{2}=w_2$$

$$(3)$$
 $\frac{1}{3|k_1|} = -(3) \cdot \sqrt{3|k_2|}$

$$\frac{1}{3} = \frac{3}{2} = \frac{3}$$

$$K_{1} \cdot K_{2} = \left(-\frac{q}{2}\right) + \frac{1}{2} \cdot \sqrt{q^{2} + \frac{4\rho^{3}}{27}} \left[-\frac{q}{2}\right] - \frac{1}{2} \cdot \sqrt{q^{2} + \frac{4\rho^{3}}{27}}\right]$$

$$= \left(-\frac{q}{2}\right)^{2} - \left[\frac{1}{2} \cdot \sqrt{q^{2} + \frac{4\rho^{3}}{27}}\right]^{2}$$

$$= \frac{q^2}{4} - \frac{1}{4} \cdot \left(q^2 + \frac{4p^3}{27}\right) = \frac{q^2}{4} - \frac{q^2}{4} - \frac{p^3}{27}$$

$$= -\frac{\rho^{3}}{27} \Rightarrow \sqrt{\frac{4 + \frac{1}{127} - \frac{4}{14} - \frac{9}{14} - \frac{9}{27}}{\frac{3}{14} \cdot \frac{1}{127}}$$

$$\frac{1}{3\sqrt{k_1}} = \left(-\frac{3}{\rho}\right) \cdot \sqrt[3]{k_2}$$

$$(4) \left| \frac{1}{3\sqrt{k_2}} \right| = -\left(\frac{3}{\rho}\right) \cdot \sqrt[3]{k_1}$$

$$\frac{1}{3\sqrt{k_2}} = \frac{3\sqrt{k_1}}{\sqrt{3\sqrt{k_2}}} = \frac{\sqrt{3\sqrt{k_1}}}{\sqrt{3\sqrt{k_2}}} = \frac{\sqrt{3\sqrt{k_1}}}{\sqrt{3\sqrt{k_1}}} = \frac{\sqrt{3\sqrt{k_1}}}{\sqrt$$

$$\frac{1}{3\sqrt{\kappa_2}} = \frac{3}{\kappa_1} \frac{1}{\sqrt{3}} \frac{3}{\kappa_2} \frac{3}{\sqrt{3}} \frac{3}{\sqrt$$

$$= \sqrt[3]{\kappa_1} \cdot \left(-\frac{3}{\rho}\right)$$

$$= \sqrt[3]{\kappa_2} - \left(-\frac{3}{\rho}\right) \cdot \sqrt[3]{\kappa_1}$$