$$\frac{d\sigma}{dt} = -\frac{B^2}{m} \frac{b^2}{c^2} \frac{\sigma}{R}$$

$$\frac{dV}{dt} = -\frac{V}{7}$$

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$$\Delta X_{TOT} = \int_{0}^{\infty} \nabla(t) dt = \left[ -\sqrt{\sqrt{2}} e^{-t/2} \right]_{0}^{\infty} = \sqrt{\sqrt{2}} \frac{\sqrt{\sqrt{2}} e^{-t/2}}{\sqrt{2}}$$

$$W = \int_{0}^{\infty} I^{2}(t) R dt = \int_{0}^{\infty} \frac{B^{2} b^{2}}{c^{2} R} v^{2}(t) dt =$$

$$= \frac{3^{2}b^{2}}{c^{2}R} \left[ -\sqrt{3}\frac{7}{2}e^{-2t/2}\right]^{\infty} = \frac{8^{2}b^{2}}{c^{2}R} \sqrt{3}\frac{7}{2} = \frac{1}{2}m\sqrt{3} = K$$