$$\frac{(\omega)^{2}}{(\kappa)^{2}} = \kappa^{2} + 2$$

$$\frac{(\omega)^{2}}{(\kappa)^{2}} = 2$$

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$$(2) = 1 + \varepsilon^{2}(1) + \varepsilon^{4}(1) + \varepsilon^{4}(1)$$

$$V = \varepsilon^{2}(1) + \varepsilon^{4}(1)$$

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$$A+B = I + (A+B) + \frac{1}{2}(A+B)^{2} + \cdots - A+B)(A+B)$$
The solution of
$$U_{t} = Au + Bu \quad \text{is} \quad U(t) = e^{(A+B)t} \quad U(0)$$

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We approximate this (Lie-Troffer) by
$$U_{t} = Au$$

$$U_{t} = Bu$$

$$U(t) \approx e^{Bt} = e^{(A+B)t} \quad U(0)$$

$$M_1 = f(w) + Lu$$

$$\int_{\mathcal{A}} \mathcal{A}_{XXX} \mathcal{M}_{XXX} \mathcal{M}_{XXX}$$

$$L = F^{-1}D[is^3]F$$

$$e^L = F^{-1}D^{(is^3)}F$$