$$3c, \lambda^{2} = -\frac{2}{2}$$
 $\lambda = \pm i\sqrt{2}$
 $-3c = (\sin\sqrt{2}t) + (3\cos(\sqrt{2}t))$

$$\frac{L}{g} = \frac{L}{g} \left(1 - \frac{1}{3} 0^{3} \right)^{\frac{1}{2}} = \frac{LF}{gn}$$

$$0 = \frac{1}{2} + \frac{FL}{mg}$$

$$\frac{1}{2} - \frac{FL}{mg} = \frac{1}{2} + \frac{1}{2} + \frac{1}{2} = 0$$

$$\frac{1}{2} - \frac{FL}{mg} = \frac{1}{2} + \frac{1}{2} = 0$$

$$\therefore y(t) = \frac{FL}{mg} \left(1 - \cos(\frac{\pi}{2}t) \right) \quad Q \quad t = T, \quad y = L$$

$$gp[y(t)] - gp[L-y(t)] = my$$

$$gp[y(t)] - gp[L-y(t)] = my$$

$$gp[y(t)] - 2gg = -gpL$$

$$g(L-2g)y = -gL$$

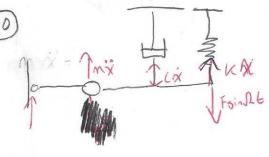
$$(0^{2}L-2g)y = -gL$$

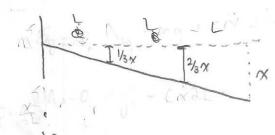
$$y_{L} - 2g = -gL$$

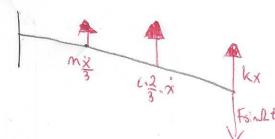
$$y_{L} = (-g^{2}L+ L_{2}e^{-f_{2}L} + L_{3}e^{-f_{2}L} + L_{3}e$$

$$y = (l - \frac{1}{2}) \cosh(\frac{12}{2}t) + \frac{1}{2}, \text{ when } t = T, y = L$$

$$\frac{L - \frac{1}{2}}{l - \frac{1}{2}} = \cosh(\int_{-\frac{1}{2}}^{2}t)$$







$$F + k_a x - y(k_a + k_i) = 0$$

$$y = \frac{F + k_a x}{k_a + k_i}$$

$$-M\ddot{x} = -k_2\left(x - \frac{F_+k_2x}{k_2 + k_1}\right)$$

$$\frac{1}{1+\sqrt{1+\frac{k_2^2}{k_2^2+k_1}}} = \frac{k_1+k_2}{k_1+k_2}$$

=
$$kM$$
 $\frac{\left(k+k-n\Omega^{2}u^{2}\right)-cD}{\left(k+k-n\Omega^{2}u^{2}\right)-cD}$ Sin Ωut

= kM $\frac{1}{A^{2}+B^{2}}$ $\frac{A^{2}+B^{3}}{A^{2}+B^{3}}$ $\frac{A}{A^{2}+B^{3}}$ Sin Ωut

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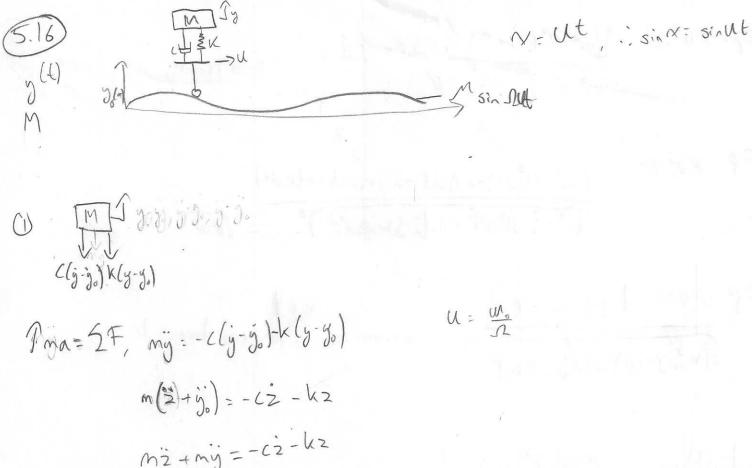
= kM $\frac{1}{A^{2}+B^{3}}$ $\frac{A^{2}+B^{3}}{A^{2}+B^{3}}$ Sin Ωut

= $\frac{A^{2}+B^{3}}{A^{2}+B^{3}}$ $\frac{A}{A^{2}+B^{3}}$ Sin Ωut

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$$m(2)+j_0)=-cz-kz$$
 $mz+mj_0=-cz-kz$
 $z-n^2isinlt=-\frac{c}{2}-\frac{k}{2}z$
 $z+\frac{k}{2}+\frac{k}{2}-\frac{1}{2}in^2sinlub}$
 $initial$
 $initial$

$$\frac{(D^{2} + 2 \int u_{0}^{2} D + u_{0}^{2})_{z}^{2} = M u_{0}^{2} \Omega^{2} \sin(\Omega u t)}{D^{2} - 2 \int u_{0}^{2} D + u_{0}^{2}} M u_{0}^{2} \Omega^{2} \sin(\Omega u t)$$

$$Z_{p}=NU^{2}\Lambda^{2}$$
 $[(w_{0}^{2}-\Omega^{2}U^{2})+21w_{0}D]$ $Sin \Omega U E$ $[(w_{0}^{2}-\Omega^{2}u^{2})-24w_{0}D][(w_{0}^{2}-\Omega^{2}u^{2})+24w_{0}D]$

= 1 (K)

$$\begin{array}{l} \widehat{S.18} \\ \widehat{y}(t) + 2 \, S \, M, \, \widehat{y}(t) + W^{2} \, y = - \dot{x}_{0}(t) \\ \widehat{0}^{2} + 2 \, J \, M_{0} \, D + M^{2} \, y = - \dot{x}_{0}(t) \\ \widehat{0}^{2} + 2 \, J \, M_{0} \, D + M^{2} \, y = - \dot{x}_{0}(t) \\ \widehat{y}_{0} = - a \, \Lambda^{2} \, \sin \Omega t \\ \widehat{y}_{0} = - a \, \Lambda^{2} \, \sin \Omega t \\ \widehat{y}_{0} = - a \, \Lambda^{2} \, \frac{1}{4 \, M_{0} \, D} + 2 \, J \, M_{0} \, D \\ \widehat{y}_{0} = - a \, \Lambda^{2} \, \frac{1}{4 \, M_{0} \, D} + 2 \, J \, M_{0} \, D \\ \widehat{y}_{0} = - a \, \Lambda^{2} \, \frac{1}{4 \, M_{0} \, D} + 2 \, J \, M_{0} \, D \\ \widehat{y}_{0} = - a \, \Lambda^{2} \, \frac{1}{4 \, M_{0} \, D} + 2 \, J \, M_{0} \, D \\ \widehat{y}_{0} = - a \, \Lambda^{2} \, \frac{1}{4 \, M_{0} \, D} + 2 \, J \, M_{0} \, D \\ \widehat{y}_{0} = - a \, \Lambda^{2} \, \frac{1}{4 \, M_{0} \, D} + 2 \, J \, M_{0} \, D \\ \widehat{y}_{0} = - a \, \Lambda^{2} \, \frac{1}{4 \, M_{0} \, D} + 2 \, J \, M_{0} \, D \\ \widehat{y}_{0} = - a \, \Lambda^{2} \, \frac{1}{4 \, M_{0} \, D} + 2 \, J \, M_{0} \, D \\ \widehat{y}_{0} = - a \, \Lambda^{2} \, \frac{1}{4 \, M_{0} \, D} + 2 \, J \, M_{0} \, D \\ \widehat{y}_{0} = - a \, \Lambda^{2} \, \frac{1}{4 \, M_{0} \, D} + 2 \, J \, M_{0} \, D \\ \widehat{y}_{0} = - a \, \Lambda^{2} \, \frac{1}{4 \, M_{0} \, D} + 2 \, J \, M_{0} \, D \\ \widehat{y}_{0} = - a \, \Lambda^{2} \, \frac{1}{4 \, M_{0} \, D} + 2 \, J \, M_{0} \, D \\ \widehat{y}_{0} = - a \, \Lambda^{2} \, \frac{1}{4 \, M_{0} \, D} + 2 \, J \, M_{0} \, D \\ \widehat{y}_{0} = - a \, \Lambda^{2} \, \frac{1}{4 \, M_{0} \, D} + 2 \, J \, M_{0} \, D \\ \widehat{y}_{0} = - a \, \Lambda^{2} \, \frac{1}{4 \, M_{0} \, D} + 2 \, J \, M_{0} \, D \\ \widehat{y}_{0} = - a \, \Lambda^{2} \, \frac{1}{4 \, M_{0} \, D} + 2 \, J \, M_{0} \, D \\ \widehat{y}_{0} = - a \, \Lambda^{2} \, \frac{1}{4 \, M_{0} \, D} + 2 \, J \, M_{0} \, D \\ \widehat{y}_{0} = - a \, \Lambda^{2} \, \frac{1}{4 \, M_{0} \, D} + 2 \, J \, M_{0} \, D \\ \widehat{y}_{0} = - a \, \Lambda^{2} \, \frac{1}{4 \, M_{0} \, D} + 2 \, J \, M_{0} \, D \\ \widehat{y}_{0} = - a \, \Lambda^{2} \, \frac{1}{4 \, M_{0} \, D} + 2 \, J \, M_{0} \, D \\ \widehat{y}_{0} = - a \, \Lambda^{2} \, \frac{1}{4 \, M_{0} \, D} + 2 \, J \, M_{0} \, D \\ \widehat{y}_{0} = - a \, \Lambda^{2} \, \frac{1}{4 \, M_{0} \, D} + 2 \, J \, M_{0} \, D \\ \widehat{y}_{0} = - a \, \Lambda^{2} \, \frac{1}{4 \, M_{0} \, D} + 2 \, J \, M_{0} \, D \\ \widehat{y}_{0} = - a \, \Lambda^{2} \, \frac{1}{4 \, M_{0} \, D} + 2 \, J \, M_{0} \, D \\ \widehat{y}_{0} = - a \, \Lambda^{2} \, \frac{1}{4 \, M_{0} \, D} + 2 \, J \, M_{0} \, D \\ \widehat{y}_{0} = - a \, \Lambda^{2} \, \frac{1}{4 \, M_{0} \, D} + 2 \, J \, M_{0} \, D \\ \widehat{y}_{0} = - a \, \Lambda^{2} \, \frac{1}{4 \, M_{0} \,$$

DMF as a Function of \boldsymbol{r} and $\boldsymbol{\zeta}$

