$\frac{1}{2} = -\omega^{2} A_{1} e^{i\omega t} = -\omega^{2} R_{1} e^{i\omega t}$ $\frac{1}{2} = A_{2} e^{i\omega t}$ $\frac{1}{2} = A_{3} e^{i\omega t}$ $\frac{1}{2} = A_{3}$

4)

=

100