```
\begin{array}{c} \overset{\sim}{\underset{\sim}{x}} x \\ \overset{\sim}{\underset{\sim}{x}} t \\ \overset{\leftarrow}{\underset{\sim}{x}} t \\ \overset{\leftarrow}{\underset{\sim}{\phi}} t \\ \overset{\leftarrow}{\underset{\sim}{charts/shm_circ.eps}} \\ \overset{\leftarrow}{\underset{\sim}{charts/shm_circ.eps}} \end{array}

\begin{array}{l}
\cos(\omega t) & \sin(\omega t) \\
\cos(\omega t) & \cos(\omega t)
\end{array}

        x_0^{\alpha i} \omega \cos(\omega t +
     a_0\omega c
           -x_0^{dt}\omega^2\sin(\omega t +
        \underline{\phi}

\frac{\phi}{x} = \frac{1}{w^2} x

F = \frac{1}{-kx}

\begin{cases}
a = \frac{F}{m} = \frac{-kx}{m} = -\omega^2 xx = x_0 \sin(\omega t + \phi) \Rightarrow \\
\frac{-kx}{m} = \frac{\omega^2 x}{w}

\frac{\omega}{w} = \frac{1}{w} = \frac{1}{w}

\frac{w}{w} = \frac{1}{w} = \frac{1}{w} = \frac{1}{w}

       \begin{array}{c} J \\ {}_{c}harts/wave_{p}rop.eps \\ \overline{T=\frac{v}{\lambda}} \\ = \end{array}
     \underline{\underline{k}} A_t^2
        \underline{\underline{\underline{k}}}(\cos\theta A_0)^2
        \underbrace{\underbrace{(\cos\theta)^2 k A_0^2}}_{=}
     \frac{(\cos\theta)}{(\cos\theta)^2} \frac{I_0}{I_0}
\frac{\int_0^{2\pi} (\cos\theta)^2 \frac{I_0}{2\pi} d\theta}{\frac{1}{2} I_0}
\frac{1}{2} \frac{I_0}{n_1}
\frac{n_1}{n_2}
\frac{n_2}{n_2}
\frac{n_2}{n_2}
\frac{n_2}{n_2}
  \begin{array}{l} \theta_1 \\ \theta_2 \\ charts/refre_dia.eps \\ \sin n_1\theta_1 = \\ \sin n_2\theta_2 \\ ?? \\ v \\ charts/dopeff_sta_sou_app_vie.eps \\ f_0 = \\ \frac{\overline{\lambda}}{\lambda} \\ \frac{\lambda' = \frac{v+v_v}{\lambda} = f_0}{v} \frac{v+v_v}{v} \\ v \\ \overline{\lambda} = f_0 \frac{v-v_v}{v} \\ ?? \\ v \\ charts/dopeff_app_sou_sta_vie.eps \\ f_0 = \\ \frac{\overline{\lambda}}{\lambda'} = \frac{v}{v-v_s} = f_0 \frac{v}{v-v_s} \end{array}
```