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 : manakov2004@mail.ru
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 : 1. - , 2.
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 . 4. - ,
 , , 5. -

$$\begin{aligned}
 x &= x(t), y = y(t), z = z(5) \\
 \vec{r} &= \vec{r}(t)
 \end{aligned}$$

$$\begin{aligned}
 < r > = \frac{\delta \vec{r}}{\delta r} \\
 | \vec{v} | &= | \lim_{\Delta r \rightarrow 0} \delta r \delta t | = \lim_{\Delta r \rightarrow 0} \frac{|\delta r \vec{t}|}{\delta t}
 \end{aligned}$$

$$\vec{\omega} = \lim_{\Delta t \rightarrow 0}$$

$$T = 2 * \pi / \omega$$