## [実習14.7

## L14.4

$$
\begin{equation*}
>\operatorname{int}\left(\operatorname { s q r t } \left(\left(\operatorname{diff}\left(\cos ^{3}(t), t\right)\right)^{2}+\left(\underset{6}{\left.\left.\left.\operatorname{diff}\left(\sin ^{3}(t), t\right)\right)^{2}\right), t=0 . .2 \cdot \operatorname{Pi}\right)}\right.\right.\right. \tag{1}
\end{equation*}
$$

## E14.5

$\left[\begin{array}{c}>\operatorname{int}\left(\operatorname{sqrt}\left((\operatorname{diff}(\exp (t) \cdot \cos (t), \boldsymbol{t}))^{\mathbf{2}}+(\operatorname{diff}(\boldsymbol{\operatorname { e x p }}(\boldsymbol{t}) \cdot \sin (\boldsymbol{t}), \boldsymbol{t}))^{\mathbf{2}}\right), \boldsymbol{t}=\mathbf{0} . . \mathbf{2} \cdot \mathbf{P i}\right) \\ -\sqrt{2}+\sqrt{2} \mathrm{e}^{2 \pi}\end{array}\right.$
[14.6
[(1)

$$
\left[\begin{array}{c}
>\operatorname{int}\left(\operatorname{sqrt}\left((\operatorname{diff}(\cos (t), t))^{2}+(\operatorname{diff}(\sin (t), t))^{2}+(\operatorname{diff}(t, t))^{2}\right), t=0 . .6 \cdot \mathrm{Pi}\right)  \tag{3}\\
6 \pi \sqrt{2}
\end{array}\right.
$$

## [(2)

$$
\left[\begin{array}{c}
>\operatorname{int}\left(\operatorname{sqrt}\left((\operatorname{diff}(t \cdot \cos (t), \boldsymbol{t}))^{2}+(\operatorname{diff}(t \cdot \sin (t), \boldsymbol{t}))^{\mathbf{2}}+(\operatorname{diff}(\boldsymbol{t}, \boldsymbol{t}))^{\mathbf{2}}\right), \boldsymbol{t}=\mathbf{0} . .6 \cdot \mathbf{P i}\right)  \tag{4}\\
3 \pi \sqrt{36 \pi^{2}+2}+\ln \left(3 \pi \sqrt{2}+\sqrt{18 \pi^{2}+1}\right)
\end{array}\right.
$$

