$$\begin{bmatrix} { { { \sharp } { { \sharp } { { \sharp } { \sharp } { \Im } { 14.7 } } } \\ { 14.4 } \\ > int({ { sqrt} ((diff({ \cos }^{3}(t), t)) ^{2} + (diff({ \sin }^{3}(t), t)) ^{2}), t = 0 ..2 \cdot Pi) \\ 6 & (1) \\ \hline \\ 14.5 \\ > int({ { sqrt} ((diff({ \exp (t) \cdot \cos (t), t})) ^{2} + (diff({ \exp (t) \cdot \sin (t), t})) ^{2}), t = 0 ..2 \cdot Pi) \\ - \sqrt{2} + \sqrt{2} e^{2\pi} & (2) \\ \hline \\ 14.6 \\ \hline \\ (1) \\ > int({ { sqrt} ((diff({ \cos (t), t})) ^{2} + (diff({ \sin (t), t})) ^{2} + (diff({ t, t})) ^{2}), t = 0 ..6 \cdot Pi) \\ 6 \pi \sqrt{2} & (3) \\ \hline \\ \\ (2) \\ > int({ { sqrt} ((diff({ t \cdot \cos (t), t})) ^{2} + (diff({ t \cdot \sin (t), t})) ^{2} + (diff({ t, t})) ^{2}), t = 0 ..6 \cdot Pi) \\ 3 \pi \sqrt{36 \pi^{2} + 2} + \ln \left(3 \pi \sqrt{2} + \sqrt{18 \pi^{2} + 1} \right) & (4) \\ \hline \end{aligned}$$