$$\int\limits_{dt} {}^{t}\mathfrak{s}^{n} = -\frac{\mathfrak{s}^{n-1}\mathfrak{c}}{n} + \frac{n-1}{n}\int\limits_{dt} {}^{t}\mathfrak{s}^{n-2} \begin{cases} \int\limits_{dt} {}^{t}\mathfrak{s}^{2m} = -\frac{\mathfrak{s}^{2m-1}\mathfrak{c}}{2m} + \frac{m-1/2}{m}\int\limits_{dt} {}^{t}\mathfrak{s}^{2m-2} \\ \int\limits_{dt} {}^{t}\mathfrak{s}^{2m+1} = -\frac{\mathfrak{s}^{2m}\mathfrak{c}}{2m+1} + \frac{m}{m+1/2}\int\limits_{dt} {}^{t}\mathfrak{s}^{2m-1} \end{cases}$$

$${}^{3t}\mathfrak{s}^{2} \lceil -\frac{1}{6}\,{}^{3t}\mathfrak{c}\;{}^{3t}\mathfrak{s} + \frac{1}{2}t\colon \quad {}^{5t}\mathfrak{s}^{2} \lceil -\frac{1}{10}\,{}^{5t}\mathfrak{c}\;{}^{5t}\mathfrak{s} + \frac{1}{2}t$$

$${}^{t}\mathfrak{s}^{3} \lceil \frac{1}{3}\left(2 - {}^{t}\mathfrak{s}^{2}\right)\,{}^{t}\mathfrak{c}\colon \quad 6\,{}^{2t}\mathfrak{s}^{3} \lceil -\,{}^{2t}\mathfrak{c}\,\left(2 + {}^{2t}\mathfrak{s}^{2}\right)\colon \quad {}^{t}\mathfrak{s}^{4} \lceil -\frac{1}{8}\left(3 + 2^{t}\mathfrak{s}^{2}\right)\,{}^{t}\mathfrak{s}\;{}^{t}\mathfrak{c} + \frac{3}{8}t$$

$${}^{3t}\mathfrak{s}^{5} \lceil \frac{1}{45}\left(8 + 4^{3t}\mathfrak{s}^{2} - 3^{3t}\mathfrak{s}^{4}\right)\,{}^{3t}\mathfrak{c}\colon \quad {}^{3t}\mathfrak{s}^{6} \lceil -\left(\frac{5}{48} + \frac{5}{72}{}^{3t}\mathfrak{s}^{2} + \frac{1}{18}{}^{3t}\mathfrak{s}^{4}\right)\,{}^{3t}\mathfrak{s}\;{}^{3t}\mathfrak{c} + \frac{5}{16}t$$

$$\frac{3}{{}^{3t}\mathfrak{s}} \lceil {}^{3t/2}\mathfrak{t}\,\cancel{\mathfrak{c}}\colon \quad \frac{30}{{}^{30t}\mathfrak{s}} \lceil {}^{15t}\mathfrak{t}\,\cancel{\mathfrak{c}}\colon \quad \int {}^{t}\mathfrak{s}^{-1} \lceil \int \frac{1}{{}^{t/2}\mathfrak{s}^{t/2}\mathfrak{c}}$$

$$\int {}^{t}\mathfrak{s}^{-2} \lceil -\,{}^{t}\mathfrak{g}\colon \quad \frac{2}{{}^{2t}\mathfrak{s}^{2}} \lceil -\,{}^{2t}\mathfrak{g}\colon \quad \frac{1}{{}^{4t}\mathfrak{s}^{3}}\colon \quad \frac{4}{{}^{2t}\mathfrak{s}^{3}} \lceil -\frac{{}^{2t}\mathfrak{c}}{{}^{2t}\mathfrak{s}^{2}} + {}^{t}\mathfrak{t}\,\cancel{\mathfrak{c}}$$

$$\frac{1}{{}^{2t}\mathfrak{s}^{5}} \lceil -\frac{1}{8}\frac{{}^{2t}\mathfrak{c}}{{}^{2t}\mathfrak{s}^{4}} - \frac{3}{16}\frac{{}^{2t}\mathfrak{c}}{{}^{2t}\mathfrak{s}^{2}} + \frac{3}{16}\,{}^{t}\mathfrak{t}\,\cancel{\mathfrak{c}}$$

$$\int\limits_{dt} {}^{t}\mathfrak{c}^{n} = \frac{\mathfrak{c}^{n-1}\mathfrak{s}}{n} + \frac{n-1}{n}\int\limits_{dt} {}^{t}\mathfrak{c}^{n-2} \begin{cases} \int\limits_{dt} {}^{t}\mathfrak{c}^{2m} = \frac{\mathfrak{c}^{2m-1}\mathfrak{s}}{2m} + \frac{m-1/2}{m}\int\limits_{dt} {}^{t}\mathfrak{c}^{2m-2} \\ \int\limits_{dt} {}^{t}\mathfrak{c}^{2m+1} = \frac{\mathfrak{c}^{2m}\mathfrak{s}}{2m+1} + \frac{m}{m+1/2}\int\limits_{dt} {}^{t}\mathfrak{c}^{2m-1} \end{cases}$$

$${}^{4t}\mathfrak{c}^{2} \lceil \frac{1}{8}\,{}^{4t}\mathfrak{c}\;{}^{4t}\mathfrak{s} + \frac{1}{2}t\colon \quad \colon {}^{2t}\mathfrak{c}^{2} \lceil \frac{1}{4}\,{}^{2t}\mathfrak{c}\;{}^{2t}\mathfrak{s} + \frac{1}{2}t$$

$${}^{3t}\mathfrak{c}^{3} \lceil \frac{1}{9}\left(2 + {}^{3t}\mathfrak{c}^{2}\right)\,{}^{3t}\mathfrak{s}\colon \quad {}^{2t}\mathfrak{c}^{4} \lceil \frac{1}{16}\left(3 + 2^{2t}\mathfrak{c}^{2}\right)\,{}^{2t}\mathfrak{s}\;{}^{2t}\mathfrak{c} + \frac{3}{8}t$$

$$ {}^{t}\mathfrak{c}^{5} \lceil \frac{1}{15} \left(8 + 4{}^{t}\mathfrak{c}^{2} + 3{}^{t}\mathfrak{c}^{4}\right) \ {}^{t}\mathfrak{s} : \quad {}^{t}\mathfrak{c}^{6} \lceil \left(\frac{5}{16} + \frac{5}{24}{}^{t}\mathfrak{c}^{2} + \frac{1}{6}{}^{t}\mathfrak{c}^{4} \right) \ {}^{t}\mathfrak{s} \ {}^{t}\mathfrak{c} + \frac{5}{16} t $$

$$ \frac{2}{{}^{2t}\mathfrak{c}} \lceil \ {}^{t + \pi/4}\mathfrak{t} \ \not{\mathfrak{e}} : \quad \frac{7}{{}^{7t}\mathfrak{c}} \lceil \ {}^{7t/2 + \pi/4}\mathfrak{t} \ \not{\mathfrak{e}} $$

$$ \frac{3}{{}^{3t}\mathfrak{c}^{2}} \lceil {}^{3t}\mathfrak{t} : \quad \int {}^{t}\mathfrak{c}^{-2} \lceil {}^{t}\mathfrak{t} $$

$$ \frac{2}{{}^{t}\mathfrak{c}^{3}} \lceil \frac{{}^{t}\mathfrak{s}}{{}^{t}\mathfrak{c}^{2}} + \ {}^{t/2 + \pi/4}\mathfrak{t} \ \not{\mathfrak{e}} : \quad \frac{1}{{}^{t}\mathfrak{c}^{4}} \lceil \frac{1}{3} \frac{{}^{t}\mathfrak{s}}{{}^{t}\mathfrak{c}^{3}} + \frac{2}{3} \frac{{}^{t}\mathfrak{s}}{{}^{t}\mathfrak{c}} $$

$$ {}^{t}\mathfrak{s}^{4} + {}^{t}\mathfrak{c}^{4} \lceil \frac{1}{4} \left({}^{t}\mathfrak{c}^{2} - {}^{t}\mathfrak{s}^{2}\right) \ {}^{t}\mathfrak{s} \ {}^{t}\mathfrak{c} + \frac{3}{4} $$

$$ {}^{t}\mathfrak{s}^{6} + {}^{t}\mathfrak{c}^{6} \lceil \frac{5}{24} \left({}^{t}\mathfrak{c}^{2} - {}^{t}\mathfrak{s}^{2}\right) \ {}^{t}\mathfrak{s} \ {}^{t}\mathfrak{c} + \frac{1}{6} \left({}^{t}\mathfrak{c}^{4} - {}^{t}\mathfrak{s}^{4}\right) \ {}^{t}\mathfrak{s} \ {}^{t}\mathfrak{c} + \frac{5}{8} t $$

$$ \int_{dt} {}^{3t}\mathfrak{t} \ \underset{u = 3t}{=} \int_{du} {}^{u}\mathfrak{t}/3 \models {}^{\sec u}\not{\mathfrak{e}}/3 = {}^{\sec 3t}\not{\mathfrak{e}}/3 $$

$$ \int_{dt} {}^{t}\mathfrak{t}^{n} = \frac{\mathfrak{t}^{n-1}}{n-1} - \int_{dt} {}^{t}\mathfrak{t}^{n-2} \begin{cases} \int_{dt} {}^{t}\mathfrak{t}^{2m} = \frac{\mathfrak{t}^{2m-1}}{2m-1} - \int_{dt} {}^{t}\mathfrak{t}^{2m-2} \\ \int_{dt} {}^{t}\mathfrak{t}^{2m+1} = \frac{\mathfrak{t}^{2m}}{2m} - \int_{dt} {}^{t}\mathfrak{t}^{2m-1} \end{cases} $$

$$ {}^{2t}\mathfrak{t}^{2} \lceil \frac{1}{2} {}^{2t}\mathfrak{t} - t : \quad {}^{t}\mathfrak{t}^{3} \lceil \frac{1}{2} {}^{t}\mathfrak{t}^{2} - \frac{1}{2} {}^{1 + {}^{t}\mathfrak{t}^{2}}\not{\mathfrak{e}} : \quad {}^{5t}\mathfrak{t}^{4} \lceil \frac{1}{15} {}^{5t}\mathfrak{t}^{3} - \frac{1}{5} {}^{5t}\mathfrak{t} + t $$

$$ {}^{t}\mathfrak{g}^{2} \lceil - {}^{t}\mathfrak{g} - t : \quad {}^{t}\mathfrak{g}^{3} \lceil -\frac{1}{2} {}^{t}\mathfrak{g}^{2} + \frac{1}{2} {}^{1 + {}^{t}\mathfrak{g}^{2}}\not{\mathfrak{e}} : \quad {}^{t}\mathfrak{g}^{4} \lceil {}^{t}\mathfrak{g} - \frac{1}{3} {}^{t}\mathfrak{g}^{3} + t $$

power part int

$$ \frac{t}{{}^{t}\mathfrak{c}^{2}} \lceil t \, {}^{t}\mathfrak{t} + {}^{{}^{t}\mathfrak{c}}\not{\mathfrak{e}} $$