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(*) = maximum (†) not Constant
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\[
\begin{align*}
(C1) & \text{ DEPENDS}(Y,T) \\
(D1) & \text{DIFF}(Y,T) + Y^2 + (2T+1)Y + T^2 + T + 1; \\
(D2) & \frac{dY}{dT} + Y^2 + (2T+1)Y + T^2 + T + 1 \\
(C3) & \text{SOLN: ODE}([%Y,T], T) \\
(D3) & Y = -\frac{\%C T \%E - T - 1}{\%C \%E - 1} \\
(C4) & \text{SUBST}([T = 1, Y = 1], .) \\
(D4) & 1 = -\frac{\%C - 2}{\%C - 1} \\
(C5) & \text{SOLVE}([%C, \%C], \text{NUMER}) \\
(D5) & [\%C = 0.5518192] \\
(C6) & \text{SPECIFIC}\_\text{SOLN: SUBST}([%C, \text{SOLN}]) \\
(D6) & Y = \frac{-0.5518192 T \%E - T - 1}{0.5518192 \%E - 1}
\end{align*}
\]

In FORTRAN code.

\[
\begin{align*}
(C7) & \text{FORTRAN}([%]) \\
& Y = -\frac{(0.5518192 + T)\exp(T) - T - 1}{(0.5518192 + T)\exp(T) - 1}
\end{align*}
\]

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