$$
\begin{aligned}
-\Big(\Big(\mathbb{i}\, T_1^2\, T_2^2 \\
&\mathbb{E}\Big[-\Big(\Big(\in \Big(1 - T_1 + T_1^2 - T_2 - T_1^3\, T_2 + T_2^2 + T_1^4\, T_2^2 - T_1\, T_2^3 - \\
&\qquad T_1^4\, T_2^3 + T_1^2\, T_2^4 - T_1^3\, T_2^4 + T_1^4\, T_2^4\Big)\Big) \Big/ \Big(\Big(1 - T_1 + T_1^2\Big) \\
&\qquad \Big(1 - T_2 + T_2^2\Big)\ \Big(1 - T_1\, T_2 + T_1^2\, T_2^2\Big)\Big)\Big)\Big]\Big) \Big/ \\
&\Big(\Big(1 - T_1 + T_1^2\Big)\ \Big(1 - T_2 + T_2^2\Big)\ \Big(1 - T_1\, T_2 + T_1^2\, T_2^2\Big)\Big)\Big)
\end{aligned}
$$