

$$F_1[\{s_, i_, j_ \}] =$$

CF[

$$\begin{aligned}
 & s \left(1/2 - g_{3ii} + T_2^s g_{1ii} g_{2ji} - g_{1ii} g_{2jj} - \right. \\
 & \quad \left(T_2^s - 1 \right) g_{2ji} g_{3ii} + 2 g_{2jj} g_{3ii} - \left(1 - T_3^s \right) g_{2ji} g_{3ji} - \\
 & \quad g_{2ii} g_{3jj} - T_2^s g_{2ji} g_{3jj} + g_{1ii} g_{3jj} + \\
 & \quad \left(\left(T_1^s - 1 \right) g_{1ji} \left(T_2^{2s} g_{2ji} - T_2^s g_{2jj} + T_2^s g_{3jj} \right) + \right. \\
 & \quad \left. \left(T_3^s - 1 \right) g_{3ji} \right. \\
 & \quad \left. \left(1 - T_2^s g_{1ii} - \left(T_1^s - 1 \right) \left(T_2^s + 1 \right) g_{1ji} + \right. \right. \\
 & \quad \left. \left. \left(T_2^s - 2 \right) g_{2jj} + g_{2ij} \right) \right) / \left(T_2^s - 1 \right) \Big);
 \end{aligned}$$