

```

g1[h[F_, L_]] := h[
  Permute[F, Cycles[{{1, 2}}]],
  Expand[
    L /. Join[{x2 -> -tF[[1]] x2},
      Table[xj ->  $\frac{1 - t_{F[[j]]}}{t_{F[[2]]} - 1} x_2 + \frac{t_{F[[1]]} - 1}{t_{F[[2]]} - 1} x_j, \{j, 3, \text{Length}[F]\}]]] //
  Simplify
]$ 
```