

```

QA[T_, y1_, a1_, x1_, ξ1_, η1_, δ_] := Module[
  {adx, G, F, f, unowns, bas, eqns, sol, λ, q, v, ξ, η, t},
  adx[ε_] := Simp[xQU ** ε - ε ** xQU];
  G = Simp[NestList[adx, yQU, $TεD + 1].
    Table[ξk/k!, {k, 0, $TεD + 1}]];
  F = Sum[f1,i,j,k[η] ε1 QU@{yi, aj, xk}, {1, 0, $TεD},
    {i, 0, 1}, {j, 0, 1}, {k, 0, Min[1, 2 1 - i - j]}];
  unowns = Cases[F, f___[η], ∞];
  bas =
  Union@@Table[ε1 Cases[Coefficient[F, ε, 1], _QU, ∞],
    {1, 0, $TεD}];
  eqns =
  Flatten[
    {(Coefficient[F - QU[], #] /. η → 0) == 0,
      Expand[Coefficient[Simp[F ** G - yQU ** F - ∂ηF],
        #] == 0} & /@ bas];
  {sol} = DSolve[eqns, unowns, η];
  λ = Collect[F /. sol /. {ε → 1, QU → Times}, ε,
    Simplify];
  q = ev (-t ξ η + η y + ξ x + δ y x);
  Collect[v q-1 DPξ→Dx, η→Dy[λ][q] /. v → (1 + t δ)-1 /.
    t → (T2 - 1)/ħ, ε, Simplify] /.
    {y → y1, a → a1, x → x1, ξ → ξ1, η → η1}
];

```