```
[> with(qseries):
[> with(thetaids):
>> with(ramarobinsids);
[CHECKRAMIDF, Eeta, Geta, GetaB, GetaEXP, GetaL, GetaLB, GetaLEXP, MGeta, MGetaL,
    findtype1, findtype10, findtype2, findtype3, findtype4, findtype5, findtype6, findtype7,
    findtype8, findtype9, latexeta, latexetaquot, latexpm, latexprinttype1, latexprinttype10,
    latexprinttype2, latexprinttype3, latexprinttype4, latexprinttype5, latexprinttype6,
    latexprinttype7, latexprinttype8, latexprinttype9, latexprinttypeL1, latexprinttypeL10,
    latexprinttypeL2, latexprinttypeL3, latexprinttypeL4, latexprinttypeL5, latexprinttypeL6,
    latexprinttypeL7, latexprinttypeL8, latexprinttypeL9, printtype1, printtype10, printtype2,
    printtype3, printtype4, printtype5, printtype6, printtype7, printtype8, printtype9,
    printtypelist, qnr, qr, ramarobinsidschanges, ramarobinsidspversion]
    xprint:=false: proveit:=true:
    G:=j->1/GetaL(qr (5) ,5,j):H:=j->1/GetaL(qnr(5),5,j):
    GM:=j->1/MGetaL(qr (5) ,5,j) : HM:=j->1/MGetaL(qnr(5) , 5,j) :
    GE:=j->-GetaLEXP (qr (5),5,j):HE:=j->-GetaLEXP (qnr (5),5,j) :
    G(1),H(1);
        \frac{JAC(0,5,\infty)}{\mp@subsup{q}{}{1/60}JAC(1,5,\infty)}},\frac{\mp@subsup{q}{}{11/60}JAC(0,5,\infty)}{JAC(2,5,\infty)
    jac2eprod(G(1)),jac2eprod(H(1));
\[
\frac{1}{\operatorname{GETA}(5,1)}, \frac{1}{\operatorname{GETA}(5,2)}
\]
>> myramatype1:=findtype1 (12);
*** There were NO errors. Each term was modular function on
    Gammal(30). Also -mintotord=8. To prove the identity
    we need to check up to O(q^(10)).
    To be on the safe side we check up to O(q^(68)).
*** The identity below is PROVED!
[6, 1, -1]
                                    _G(6) _H(1) -__G(1) _H(6)=}\frac{\eta(6\tau)\eta(\tau)}{\eta(3\tau)\eta(2\tau)
"n=", 10
*** There were NO errors. Each term was modular function on
    Gammal(55). Also -mintotord=40. To prove the identity
    we need to check up to O(q^(42)).
    To be on the safe side we check up to O(q^(150)).
*** The identity below is PROVED!
[11, 1, -1]
\[
\begin{gathered}
-G(11) \_H(1)-{ }_{-} G(1) \_H(11)=1 \\
\text { myramatypel }:=[[6,1,-1],[11,1,-1]]
\end{gathered}
\]
> PROVEDFL1;
\[
\begin{equation*}
[[6,1,-1,30,-8],[11,1,-1,55,-40]] \tag{5}
\end{equation*}
\]
[> latexprinttypeL1 (PROVEDFL1,RR51,"TESTRR5TYPE1.txt");
> printtypelist(printtype1, PROVEDFL1, 3,1);
\[
\begin{equation*}
G(6) H(1)-G(1) H(6)=\frac{\eta(6 \tau) \eta(\tau)}{\eta(3 \tau) \eta(2 \tau)}, \Gamma_{1}(30),-B=8 \text {, } \tag{3.1}
\end{equation*}
\]
\[
\begin{equation*}
G(11) H(1)-G(1) H(11)=1, \Gamma_{1}(55),-B=40, \tag{6}
\end{equation*}
\]```

