

B: lists

B.0 Here, I give expressions for $Q(i, j, k)$ in terms of the functions V and \prod (these terms are defined in §3.4). I give these forms for $j = 0$ and all $0 \leq i \leq 4$ and all $0 \leq k \leq 2$ (from which, of course, all $Q(i, j, k)$ may be found). I also give the expression for $Q(3, 2, 0)$, which is of special interest.

$$Q(1, 0, 0) = -3V^*(4) + 2 \prod \left(\begin{matrix} -q^2, -q^3 \\ q^2, q^3, -q^4, -1 \end{matrix}; q^9 \right) - \prod \left(\begin{matrix} -q, -q^3 \\ q, q^3, -q^4, -1 \end{matrix}; q^9 \right)$$

$$Q(1, 0, 1) = - \prod \left(\begin{matrix} q^4 \\ q^2, q^2, q^3 \end{matrix}; q^9 \right)$$

$$Q(1, 0, 2) = \prod \left(\begin{matrix} \\ q^2, q^3 \end{matrix}; q^9 \right)$$

$$Q(2, 0, 0) = -2V^*(4) + \prod \left(\begin{matrix} -q \\ q, q^4, -1 \end{matrix}; q^9 \right) - \prod \left(\begin{matrix} -q, -q^3 \\ q, q^3, -q^4, -1 \end{matrix}; q^9 \right)$$

$$Q(2, 0, 1) = - \prod \left(\begin{matrix} \\ q, q^3 \end{matrix}; q^9 \right)$$

$$Q(2, 0, 2) = -q^{-1}V^*(2) + q^{-1} \prod \left(\begin{matrix} -q^3, -q^4 \\ q^3, q^4, -q^2, -1 \end{matrix}; q^9 \right)$$

$$Q(3, 0, 0) = -2V^*(4) - q \prod \left(\begin{matrix} -q^3, -q^3 \\ q^2, q^4, -q^4, -q^4 \end{matrix}; q^9 \right)$$

$$Q(3, 0, 1) = -q^{-1}V^*(1) - q^{-1} \prod \left(\begin{matrix} -q^2 \\ q, q^2, -1 \end{matrix}; q^9 \right) + q^{-1} \prod \left(\begin{matrix} -q^3, -q^3 \\ q, q^4, -q, -q \end{matrix}; q^9 \right)$$

$$Q(3, 0, 2) = q^{-1}V^*(2) - q^{-1} \prod \left(\begin{matrix} -q^4 \\ q^2, q^4, -1 \end{matrix}; q^9 \right)$$

$$Q(4, 0, 0) = -2V^*(4) - q \prod \left(\begin{matrix} -q^3, -q^3 \\ q^2, q^4, -q^4, -q^4 \end{matrix}; q^9 \right)$$

$$Q(4, 0, 1) = q^{-1}V^*(1) - q^{-1} \prod \left(\begin{matrix} -q^2 \\ q, q^2, -1 \end{matrix}; q^9 \right)$$

$$Q(4, 0, 2) = 0.$$

and also

$$Q(3, 2, 0) = -q \prod \left(\begin{matrix} \\ q^4, q^3 \end{matrix}; q^9 \right)$$

B.1 And here I express all $R(i, j, k)$ in terms of the functions U^* and \prod .

$$R(0, 0, 0) = 2q^3 U^*(3) - 2q^2 \prod \left(\begin{matrix} -q, -q, -q^5, -q^5, -q^7 \\ q^2, q^2, q^4, q^6, q^6, q^8 \end{matrix}; q^{16} \right)$$

$$R(0, 0, 1) = 2 \prod \left(\begin{matrix} -q^3, -q^3, -q^5, -q^7, -q^7 \\ q^2, q^2, q^4, q^6, q^6, q^8 \end{matrix}; q^{16} \right)$$

$$R(0, 0, 2) = -2q^2 \prod \left(\begin{matrix} -q, -q, -q^3, -q^5, -q^7 \\ q^2, q^2, q^4, q^6, q^6, q^8 \end{matrix}; q^{16} \right)$$

$$R(0, 0, 3) = 2q \prod \left(\begin{matrix} -q, -q^3, -q^3, -q^5, -q^7 \\ q^2, q^2, q^4, q^6, q^6, q^8 \end{matrix}; q^{16} \right)$$

$$R(0, 1, 0) = 2q^3 U^*(3) + q \prod \left(\begin{matrix} -q^5 \\ q^4, q^6 \end{matrix}; q^{16} \right) + \prod \left(\begin{matrix} -q^7, -q^7 \\ -q^3, q^4, q^6 \end{matrix}; q^{16} \right)$$

$$R(0, 1, 1) = q^2 \prod \left(\begin{matrix} -q \\ q^4, q^6 \end{matrix}; q^{16} \right)$$

$$R(0, 1, 2) = 0$$

$$R(0,1,3) = \prod \left(\begin{matrix} -q^7 \\ q^4, q^6 \end{matrix} ; q^{16} \right)$$

$$R(0,2,0) = 2q^3 U^*(3) - q \prod \left(\begin{matrix} -q, -q, -q^5, -q^7, -q^7 \\ q^2, q^2, q^2, q^6, q^6, q^6 \end{matrix} ; q^{16} \right)$$

$$+ \prod \left(\begin{matrix} -q, -q^7, q^8 \\ -q^3, q^2, q^4, q^4 \end{matrix} ; q^{16} \right)$$

$$R(0,2,1) = \prod \left(\begin{matrix} -q, -q^3, -q^5, -q^7, -q^7 \\ q^2, q^2, q^2, q^6, q^6, q^6 \end{matrix} ; q^{16} \right)$$

$$R(0,2,2) = - \prod \left(\begin{matrix} -q, -q^3, -q^5, -q^5, -q^7 \\ q^2, q^2, q^2, q^6, q^6, q^6 \end{matrix} ; q^{16} \right)$$

$$R(0,2,3) = \prod \left(\begin{matrix} -q, -q^3, -q^3, -q^5, -q^7, q^8 \\ q^2, q^2, q^4, q^4, q^4, q^6, q^6 \end{matrix} ; q^{16} \right) + \prod \left(\begin{matrix} -q^3, -q^5 \\ -q^7, q^4, q^6 \end{matrix} ; q^{16} \right)$$

$$R(0,3,0) = 2q^3 U^*(3) + q \prod \left(\begin{matrix} -q^5 \\ q^4, q^6 \end{matrix} ; q^{16} \right) + \prod \left(\begin{matrix} -q^7, -q^7 \\ -q^3, q^4, q^6 \end{matrix} ; q^{16} \right)$$

$$R(0,3,1) = \prod \left(\begin{matrix} -q^3, -q^5 \\ -q, q^4, q^6 \end{matrix} ; q^{16} \right)$$

$$R(0,3,2) = 0$$

$$R(0,3,3) = q \prod \left(\begin{matrix} -q^3, -q^5 \\ -q^7, q^4, q^6 \end{matrix} ; q^{16} \right)$$

$$R(0,4,0) = 2q^3 U^*(3) + \prod \left(\begin{matrix} -q^7, -q^7 \\ -q^3, q^4, q^6 \end{matrix} ; q^{16} \right)$$

$$- q \prod \left(\begin{matrix} -q, -q, -q^5, -q^7, -q^7 \\ q^2, q^2, q^2, q^6, q^6, q^6 \end{matrix} ; q^{16} \right)$$

$$R(0,4,1) = \prod \left(\begin{matrix} -q, -q^3, -q^5, -q^7, -q^7 \\ q^2, q^2, q^2, q^6, q^6, q^6 \end{matrix} ; q^{16} \right) + q^2 \prod \left(\begin{matrix} -q \\ q^4, q^6 \end{matrix} ; q^{16} \right)$$

$$R(0, 4, 2) = -q \prod \left(\begin{matrix} -q, -q, -q^3, -q^5, -q^7, q^8 \\ q^2, q^2, q^4, q^4, q^6, q^6 \end{matrix}; q^{16} \right)$$

$$R(0, 4, 3) = \prod \left(\begin{matrix} -q, -q^3, -q^3, -q^5, -q^7, q^8 \\ q^2, q^2, q^4, q^4, q^6, q^6 \end{matrix}; q^{16} \right)$$

$$R(1, 0, 0) = -q^3 U^*(3) - \prod \left(\begin{matrix} -q^7, -q^7 \\ -q^3, q^4, q^6 \end{matrix}; q^{16} \right)$$

$$R(1, 0, 1) = -q^5 U^*(7) + \prod \left(\begin{matrix} -q^5, -q^5 \\ -q^7, q^2, q^4 \end{matrix}; q^{16} \right)$$

$$R(1, 0, 2) = \prod \left(\begin{matrix} -q, -q^7 \\ -q^3, q^2, q^4 \end{matrix}; q^{16} \right)$$

$$R(1, 0, 3) = -\prod \left(\begin{matrix} -q^7 \\ q^4, q^6 \end{matrix}; q^{16} \right)$$

$$R(1, 1, 0) = -q^3 U^*(3) + q \prod \left(\begin{matrix} -q, -q, -q^5, -q^7, -q^7 \\ q^2, q^2, q^2, q^6, q^6, q^6 \end{matrix}; q^{16} \right)$$

$$R(1, 1, 1) = -q^5 U^*(7) - \prod \left(\begin{matrix} -q^3, -q^3, -q^3, -q^5, -q^5, q^8 \\ q^2, q^2, q^4, q^4, q^4, q^6, q^6 \end{matrix}; q^{16} \right)$$

$$R(1, 1, 2) = \prod \left(\begin{matrix} -q, -q^3, -q^5, -q^5, -q^7 \\ q^2, q^2, q^2, q^6, q^6, q^6 \end{matrix}; q^{16} \right)$$

$$R(1, 1, 3) = -2q \prod \left(\begin{matrix} -q, -q^3, -q^3, -q^5, -q^7 \\ q^2, q^2, q^4, q^6, q^6, q^8 \end{matrix}; q^{16} \right)$$

$$R(1, 2, 0) = -q^3 U^*(3) + q^2 \prod \left(\begin{matrix} -q, q^4 \\ q^2, q^6, q^6 \end{matrix}; q^{16} \right)$$

$$R(1, 2, 1) = -q^5 U^*(7) + q \prod \left(\begin{matrix} -q^3, -q^5, q^8 \\ -q^7, q^4, q^4, q^6 \end{matrix}; q^{16} \right)$$

$$R(1, 2, 2) = 0$$

$$R(1, 2, 3) = 0$$

$$R(1, 3, 0) = -q^3 U^*(3) + q \prod \left(\begin{matrix} -q, -q, -q^5, -q^7, -q^7 \\ q^2, q^2, q^2, q^6, q^6 \end{matrix}; q^{16} \right)$$

$$R(1, 3, 1) = -q^5 U^*(7) - q \prod \left(\begin{matrix} -q, -q^3, -q^3, -q^5, -q^5 \\ q^2, q^2, q^2, q^6, q^6 \end{matrix}; q^{16} \right)$$

$$- q^2 \prod \left(\begin{matrix} -q \\ q^4, q^6 \end{matrix}; q^{16} \right)$$

$$R(1, 3, 2) = \prod \left(\begin{matrix} -q, -q^3, -q^5, -q^5, -q^7 \\ q^2, q^2, q^2, q^6, q^6 \end{matrix}; q^{16} \right)$$

$$R(1, 3, 3) = - \prod \left(\begin{matrix} -q, -q^3, -q^3, -q^5, -q^7, q^8 \\ q^2, q^2, q^4, q^4, q^4, q^6 \end{matrix}; q^{16} \right)$$

$$R(1, 4, 0) = -q^3 U^*(3) - q \prod \left(\begin{matrix} -q^5 \\ q^4, q^6 \end{matrix}; q^{16} \right)$$

$$R(1, 4, 1) = -q^5 U^*(7) + q \prod \left(\begin{matrix} -q \\ q^2, q^4 \end{matrix}; q^{16} \right)$$

$$R(1, 4, 2) = \prod \left(\begin{matrix} -q^3 \\ q^2, q^4 \end{matrix}; q^{16} \right)$$

$$R(1, 4, 3) = -q \prod \left(\begin{matrix} -q^3, -q^5 \\ -q^7, q^4, q^6 \end{matrix}; q^{16} \right)$$

$$R(2, 0, 0) = - \prod \left(\begin{matrix} -q, -q^3, -q^5, -q^7, -q^7, q^8 \\ q^2, q^2, q^4, q^4, q^4, q^6 \end{matrix}; q^{16} \right)$$

$$R(2, 0, 1) = q^5 U^*(7) + \prod \left(\begin{matrix} -q^3, -q^3, -q^3, -q^5, -q^5, q^8 \\ q^2, q^2, q^4, q^4, q^4, q^6 \end{matrix}; q^{16} \right)$$

$$R(2, 0, 2) = -2q^2 \prod \left(\begin{matrix} -q, -q, -q^3, -q^5, -q^7 \\ q^2, q^2, q^4, q^6, q^8 \end{matrix}; q^{16} \right)$$

$$R(2,0,3) = U^*(1) - q^{-1} + q^{-1} \prod \left(\begin{matrix} -q^3, -q^3, -q^5, -q^5, -q^7 \\ q^2, q^2, q^2, q^6, q^6 \end{matrix}; q^{16} \right) - \prod \left(\begin{matrix} -q^7 \\ q^4, q^6 \end{matrix}; q^{16} \right)$$

$$R(2,1,0) = 0$$

$$R(2,1,1) = q^5 U^*(7) - \prod \left(\begin{matrix} -q^5, -q^5 \\ -q^7, q^2, q^4 \end{matrix}; q^{16} \right)$$

$$R(2,1,2) = 0$$

$$R(2,1,3) = U^*(1) - q^{-1} + q^{-1} \prod \left(\begin{matrix} -q^7 \\ q^2, q^4 \end{matrix}; q^{16} \right)$$

$$R(2,2,0) = -q \prod \left(\begin{matrix} -q, -q^3, -q^3, -q^5, -q^7 \\ q^2, q^2, q^2, q^6, q^6, q^6 \end{matrix}; q^{16} \right)$$

$$R(2,2,1) = q^5 U^*(7) + q \prod \left(\begin{matrix} -q, -q^3, -q^3, -q^5, -q^5 \\ q^2, q^2, q^2, q^6, q^6, q^6 \end{matrix}; q^{16} \right)$$

$$R(2,2,2) = - \prod \left(\begin{matrix} -q, -q^3, -q^5, -q^5, -q^7 \\ q^2, q^2, q^2, q^6, q^6, q^6 \end{matrix}; q^{16} \right)$$

$$R(2,2,3) = U^*(1) - q^{-1} + q^{-1} \prod \left(\begin{matrix} -q^3, -q^3, -q^5, -q^5, -q^7 \\ q^2, q^2, q^2, q^6, q^6, q^6 \end{matrix}; q^{16} \right)$$

$$R(2,3,0) = 0$$

$$R(2,3,1) = q^5 U^*(7) - q \prod \left(\begin{matrix} -q \\ q^2, q^4 \end{matrix}; q^{16} \right)$$

$$R(2,3,2) = 0$$

$$R(2,3,3) = U^*(1) - q^{-1} + q^{-1} \prod \left(\begin{matrix} -q^3, -q^3 \\ -q, q^2, q^4 \end{matrix}; q^{16} \right)$$

$$R(2,4,0) = -2q \prod \left(\begin{matrix} -q, -q^3, -q^5, -q^7, -q^7 \\ q^2, q^2, q^4, q^6, q^8 \end{matrix}; q^{16} \right)$$

$$R(2,4,1) = q^5 U^*(7) + q \prod \left(\begin{matrix} -q, -q^3, -q^3, -q^5, -q^5 \\ q^2, q^2, q^2, q^6, q^6, q^6 \end{matrix}; q^{16} \right)$$

$$+ q^2 \prod \left(\begin{matrix} -q \\ q^4, q^6 \end{matrix}; q^{16} \right)$$

$$R(2,4,2) = -q \prod \left(\begin{matrix} -q, -q, -q^3, -q^5, -q^7, q^8 \\ q^2, q^2, q^4, q^4, q^4, q^6, q^6 \end{matrix}; q^{16} \right)$$

$$R(2,4,3) = U^*(1) - q^{-1} + q^{-1} \prod \left(\begin{matrix} -q^3, -q^3, -q^5, -q^5, -q^5, q^8 \\ q^2, q^2, q^4, q^4, q^4, q^6, q^6 \end{matrix}; q^{16} \right)$$

$$R(3,0,0) = - \prod \left(\begin{matrix} -q^5 \\ q^2, q^4 \end{matrix}; q^{16} \right)$$

$$R(3,0,1) = \prod \left(\begin{matrix} -q^3, -q^5 \\ -q, q^4, q^6 \end{matrix}; q^{16} \right)$$

$$R(3,0,2) = -q^4 U^*(5) + q \prod \left(\begin{matrix} -q^3 \\ q^4, q^6 \end{matrix}; q^{16} \right)$$

$$R(3,0,3) = -U^*(1) + q^{-1} - q^{-1} \prod \left(\begin{matrix} -q^7 \\ q^2, q^4 \end{matrix}; q^{16} \right)$$

$$R(3,1,0) = q \prod \left(\begin{matrix} -q, -q^3, -q^3, -q^5, -q^7 \\ q^2, q^2, q^2, q^6, q^6, q^6 \end{matrix}; q^{16} \right)$$

$$R(3,1,1) = - \prod \left(\begin{matrix} -q, -q^3, -q^5, -q^5, -q^7, q^8 \\ q^2, q^2, q^4, q^4, q^4, q^6, q^6 \end{matrix}; q^{16} \right)$$

$$R(3,1,2) = -q^4 U^*(5) + q \prod \left(\begin{matrix} -q, -q, -q^3, -q^7, -q^7 \\ q^2, q^2, q^2, q^6, q^6, q^6 \end{matrix}; q^{16} \right)$$

$$R(3,1,3) = -U^*(1) + q^{-1} - q^{-1} \prod \left(\begin{matrix} -q^3, -q^3, -q^5, -q^5, -q^7 \\ q^2, q^2, q^2, q^6, q^6, q^6 \end{matrix}; q^{16} \right) + \prod \left(\begin{matrix} -q^7 \\ q^4, q^6 \end{matrix}; q^{16} \right)$$

$$R(3,2,0) = 0$$

$$R(3,2,1) = 0$$

$$R(3,2,2) = -q^4 U^*(5) - \prod \left(\begin{matrix} -q^8, q^4 \\ q^2, q^6, q^6 \end{matrix}; q^{16} \right)$$

$$R(3,2,3) = -U^*(1) + q^{-1} - q^{-1} \prod \left(\begin{matrix} -q^3, -q^5, q^8 \\ -q, q^4, q^4, q^6 \end{matrix}; q^{16} \right)$$

$$R(3,3,0) = q \prod \left(\begin{matrix} -q, -q^3, -q^3, -q^5, -q^7 \\ q^2, q^2, q^2, q^6, q^6, q^6 \end{matrix}; q^{16} \right)$$

$$R(3,3,1) = -2q \prod \left(\begin{matrix} -q, -q^3, -q^5, -q^5, -q^7 \\ q^2, q^2, q^4, q^6, q^6, q^8 \end{matrix}; q^{16} \right)$$

$$R(3,3,2) = -q^4 U^*(5) + q \prod \left(\begin{matrix} -q, -q, -q^3, -q^7, -q^7 \\ q^2, q^2, q^2, q^6, q^6, q^6 \end{matrix}; q^{16} \right)$$

$$R(3,3,3) = -U^*(1) + q^{-1} - q^{-1} \prod \left(\begin{matrix} -q^3, -q^3, -q^5, -q^5, -q^5, q^8 \\ q^2, q^2, q^4, q^4, q^4, q^6 \end{matrix}; q^{16} \right)$$

$$R(3,4,0) = -q \prod \left(\begin{matrix} -q, -q^7 \\ -q^5, q^2, q^4 \end{matrix}; q^{16} \right)$$

$$R(3,4,1) = q^2 \prod \left(\begin{matrix} -q \\ q^4, q^6 \end{matrix}; q^{16} \right)$$

$$R(3, 4, 2) = -q^4 U^*(5) + q^3 \prod \left(\begin{matrix} -q, -q \\ -q^5, q^4, q^6 \end{matrix}; q^{16} \right)$$

$$R(3, 4, 3) = -U^*(1) + q^{-1} - q^{-1} \prod \left(\begin{matrix} -q^3, -q^3 \\ -q, q^2, q^4 \end{matrix}; q^{16} \right)$$

$$R(4, 0, 0) = - \prod \left(\begin{matrix} -q, -q^3, -q^5, -q^7, -q^7, q^8 \\ q^2, q^2, q^4, q^4, q^4, q^6, q^6 \end{matrix}; q^{16} \right)$$

$$R(4, 0, 1) = \prod \left(\begin{matrix} -q, -q^3, -q^5, -q^5, -q^7, q^8 \\ q^2, q^2, q^4, q^4, q^4, q^6, q^6 \end{matrix}; q^{16} \right)$$

$$R(4, 0, 2) = 2q^4 U^*(5) - q \prod \left(\begin{matrix} -q, -q, -q^3, -q^7, -q^7 \\ q^2, q^2, q^2, q^6, q^6, q^6 \end{matrix}; q^{16} \right)$$

$$- q^3 \prod \left(\begin{matrix} -q, -q \\ -q^5, q^4, q^6 \end{matrix}; q^{16} \right)$$

$$R(4, 0, 3) = q \prod \left(\begin{matrix} -q, -q, -q^3, -q^5, -q^7 \\ q^2, q^2, q^2, q^6, q^6, q^6 \end{matrix}; q^{16} \right) - \prod \left(\begin{matrix} -q^7 \\ q^4, q^6 \end{matrix}; q^{16} \right)$$

$$R(4, 1, 0) = 0$$

$$R(4, 1, 1) = - \prod \left(\begin{matrix} -q^3, -q^5 \\ -q, q^4, q^6 \end{matrix}; q^{16} \right)$$

$$R(4, 1, 2) = 2q^4 U^*(5) - q \prod \left(\begin{matrix} -q^3 \\ q^4, q^6 \end{matrix}; q^{16} \right) - q^3 \prod \left(\begin{matrix} -q, -q \\ -q^5, q^4, q^6 \end{matrix}; q^{16} \right)$$

$$R(4, 1, 3) = -q \prod \left(\begin{matrix} -q^3, -q^5 \\ -q^7, q^4, q^6 \end{matrix}; q^{16} \right)$$

$$R(4, 2, 0) = -q \prod \left(\begin{matrix} -q, -q^3, -q^3, -q^5, -q^7 \\ q^2, q^2, q^2, q^6, q^6, q^6 \end{matrix}; q^{16} \right)$$

$$R(4, 2, 1) = \prod \left(\begin{matrix} -q, -q^3, -q^5, -q^5, -q^7, q^8 \\ q^2, q^2, q^4, q^4, q^4, q^6, q^6 \end{matrix}; q^{16} \right) - \prod \left(\begin{matrix} -q^3, -q^5 \\ -q, q^4, q^6 \end{matrix}; q^{16} \right)$$

$$R(4, 2, 2) = 2q^{\frac{4}{5}} U^*(5) - q \prod_{\substack{-q, -q, -q^3, -q^7, -q^7 \\ q^2, q^2, q^2, q^6, q^6}} \left(q^{16} \right)$$

$$- \prod_{\substack{-q, -q^7, q^8 \\ -q^5, q^2, q^4, q^4}} \left(q^{16} \right)$$

$$R(4, 2, 3) = q \prod_{\substack{-q, -q, -q^3, -q^5, -q^7 \\ q^2, q^2, q^2, q^6, q^6}} \left(q^{16} \right)$$

$$R(4, 3, 0) = 0$$

$$R(4, 3, 1) = -q^2 \prod_{\substack{-q \\ q^4, q^6}} \left(q^{16} \right)$$

$$R(4, 3, 2) = 2q^4 U^*(5) - q \prod_{\substack{-q^3 \\ q^4, q^6}} \left(q^{16} \right) - q^3 \prod_{\substack{-q, -q \\ -q^5, q^4, q^6}} \left(q^{16} \right)$$

$$R(4, 3, 3) = - \prod_{\substack{-q^7 \\ q^4, q^6}} \left(q^{16} \right)$$

$$R(4, 4, 0) = -2q \prod_{\substack{-q, -q^3, -q^5, -q^7, -q^7 \\ q^2, q^2, q^4, q^6, q^6, q^8}} \left(q^{16} \right)$$

$$R(4, 4, 1) = 2q \prod_{\substack{-q, -q^3, -q^5, -q^5, -q^7 \\ q^2, q^2, q^4, q^6, q^6, q^8}} \left(q^{16} \right)$$

$$R(4, 4, 2) = 2q^4 U^*(5) - 2q \prod_{\substack{-q, -q^3, -q^3, -q^7, -q^7 \\ q^2, q^2, q^4, q^6, q^6, q^8}} \left(q^{16} \right)$$

$$R(4, 4, 3) = 2q^2 \prod_{\substack{-q, -q, -q^3, -q^5, -q^5 \\ q^2, q^2, q^4, q^6, q^6, q^8}} \left(q^{16} \right)$$