

$$\sum_{n=0}^{\infty} q^{\frac{n^2+n}{2}} = \frac{(q^2; q^2)_{\infty}^1}{(q; q^2)_{\infty}} \quad (1)$$

$$\sum_{n=0}^{\infty} \frac{q^{n^2}}{(q; q)_n^2} = \frac{1}{(q; q)_{\infty}} \quad (2)$$

$$\sum_{n=0}^{\infty} \frac{q^{n^2}}{(q; q)_n} = \frac{1}{(q; q^5)_{\infty} (q^4; q^5)_{\infty}} \quad (3)$$

$$\sum_{n=0}^{\infty} \frac{q^{n^2+n}}{(q; q)_n} = \frac{1}{(q^2; q^5)_{\infty} (q^3; q^5)_{\infty}} \quad (4)$$

$$\sum_{n=0}^{\infty} \frac{q^{\frac{n^2+n}{2}}}{(q; q)_n} = \frac{1}{(q; q^2)_{\infty}} \quad (5)$$

$$\sum_{n=0}^{\infty} \frac{q^{n^2}}{(q^2; q^2)_n} = \frac{(q^2; q^4)_{\infty}^1}{(q; q^4)_{\infty} (q^3; q^4)_{\infty}} \quad (6)$$

$$\sum_{n=0}^{\infty} \frac{q^{\frac{3n^2+n}{2}}}{(q^3; q^3)_n} = \frac{(q^4; q^6)_{\infty}^1}{(q^2; q^6)_{\infty} (q^5; q^6)_{\infty}} \quad (7)$$

$$\sum_{n=0}^{\infty} \frac{q^{2n^2+n}}{(q^4; q^4)_n} = \frac{(q^6; q^8)_{\infty}^1}{(q^3; q^8)_{\infty} (q^7; q^8)_{\infty}} \quad (8)$$

$$\sum_{n=0}^{\infty} \frac{q^{n^2}}{(q^4; q^4)_n} = \frac{(q^2; q^{20})_{\infty}^1 (q^{10}; q^{20})_{\infty}^1 (q^{18}; q^{20})_{\infty}^1}{(q; q^{20})_{\infty} (q^4; q^{20})_{\infty} (q^9; q^{20})_{\infty} (q^{11}; q^{20})_{\infty} (q^{16}; q^{20})_{\infty} (q^{19}; q^{20})_{\infty}} \quad (9)$$

$$\sum_{n=0}^{\infty} \frac{q^{\frac{5n^2+n}{2}}}{(q^5; q^5)_n} = \frac{(q^6; q^{10})_{\infty}^1}{(q^3; q^{10})_{\infty} (q^8; q^{10})_{\infty}} \quad (10)$$

$$\sum_{n=0}^{\infty} \frac{q^{n^2+2n}}{(q^4; q^4)_n} = \frac{(q^6; q^{20})_{\infty}^1 (q^{10}; q^{20})_{\infty}^1 (q^{14}; q^{20})_{\infty}^1}{(q^3; q^{20})_{\infty} (q^7; q^{20})_{\infty} (q^8; q^{20})_{\infty} (q^{12}; q^{20})_{\infty} (q^{13}; q^{20})_{\infty} (q^{17}; q^{20})_{\infty}} \quad (11)$$

$$\sum_{n=0}^{\infty} \frac{q^{\frac{5n^2+3n}{2}}}{(q^5; q^5)_n} = \frac{(q^8; q^{10})_{\infty}^1}{(q^4; q^{10})_{\infty} (q^9; q^{10})_{\infty}} \quad (12)$$

$$\sum_{n=0}^{\infty} \frac{q^{3n^2+2n}}{(q^6; q^6)_n} = \frac{(q^{10}; q^{12})_{\infty}^1}{(q^5; q^{12})_{\infty} (q^{11}; q^{12})_{\infty}} \quad (13)$$

$$\sum_{n=0}^{\infty} \frac{q^{n^2}}{(q; q)_{2n}} = \frac{1}{(q; q^{20})_{\infty} (q^3; q^{20})_{\infty} (q^4; q^{20})_{\infty} (q^5; q^{20})_{\infty} (q^7; q^{20})_{\infty} (q^9; q^{20})_{\infty} (q^{11}; q^{20})_{\infty} (q^{13}; q^{20})_{\infty} (q^{15}; q^{20})_{\infty} (q^{16}; q^{20})_{\infty} (q^{17}; q^{20})_{\infty} (q^{19}; q^{20})_{\infty}} \quad (14)$$

$$\sum_{n=0}^{\infty} \frac{q^{n^2+n}}{(q; q)_{2n}} = \frac{1}{(q^2; q^{20})_{\infty} (q^3; q^{20})_{\infty} (q^4; q^{20})_{\infty} (q^5; q^{20})_{\infty} (q^6; q^{20})_{\infty} (q^7; q^{20})_{\infty} (q^{13}; q^{20})_{\infty} (q^{14}; q^{20})_{\infty} (q^{15}; q^{20})_{\infty} (q^{16}; q^{20})_{\infty} (q^{17}; q^{20})_{\infty} (q^{18}; q^{20})_{\infty}} \quad (15)$$

$$\sum_{n=0}^{\infty} \frac{q^{2n^2}}{(q; q)_{2n}} = \frac{1}{(q^2; q^{16})_{\infty} (q^3; q^{16})_{\infty} (q^4; q^{16})_{\infty} (q^5; q^{16})_{\infty} (q^{11}; q^{16})_{\infty} (q^{12}; q^{16})_{\infty} (q^{13}; q^{16})_{\infty} (q^{14}; q^{16})_{\infty}} \quad (16)$$

$$\sum_{n=0}^{\infty} \frac{q^{2n^2+n}}{(q; q)_{2n+1}} = \frac{1}{(q; q^2)_{\infty}} \quad (17)$$

$$\sum_{n=0}^{\infty} \frac{q^{2n^2+2n}}{(q; q)_{2n+1}} = \frac{1}{(q; q^{16})_{\infty} (q^4; q^{16})_{\infty} (q^6; q^{16})_{\infty} (q^7; q^{16})_{\infty} (q^9; q^{16})_{\infty} (q^{10}; q^{16})_{\infty} (q^{12}; q^{16})_{\infty} (q^{15}; q^{16})_{\infty}} \quad (18)$$

$$\sum_{n=0}^{\infty} \frac{q^{n^2+n}}{(q; q)_{2n+1}} = \frac{1}{(q; q^{20})_{\infty} (q^2; q^{20})_{\infty} (q^5; q^{20})_{\infty} (q^6; q^{20})_{\infty} (q^8; q^{20})_{\infty} (q^9; q^{20})_{\infty} (q^{11}; q^{20})_{\infty} (q^{12}; q^{20})_{\infty} (q^{14}; q^{20})_{\infty} (q^{15}; q^{20})_{\infty} (q^{18}; q^{20})_{\infty} (q^{19}; q^{20})_{\infty}} \quad (19)$$

$$\sum_{n=0}^{\infty} \frac{q^{n^2+2n}}{(q; q)_{2n+1}} = \frac{1}{(q; q^{20})_{\infty} (q^3; q^{20})_{\infty} (q^5; q^{20})_{\infty} (q^7; q^{20})_{\infty} (q^8; q^{20})_{\infty} (q^9; q^{20})_{\infty} (q^{11}; q^{20})_{\infty} (q^{12}; q^{20})_{\infty} (q^{13}; q^{20})_{\infty} (q^{15}; q^{20})_{\infty} (q^{17}; q^{20})_{\infty} (q^{19}; q^{20})_{\infty}} \quad (20)$$

$$\sum_{n=0}^{\infty} \frac{q^{n^2}(-q; q^2)_n}{(q^2; q^2)_n^2} = \frac{1}{(q; q^4)_{\infty}(q^3; q^4)_{\infty}(q^4; q^4)_{\infty}} \quad (21)$$

$$\sum_{n=0}^{\infty} \frac{q^{n^2}(-q; q)_n^2}{(q^2; q^2)_n^2} = \frac{1}{(q; q)_{\infty}} \quad (22)$$

$$\sum_{n=0}^{\infty} \frac{q^{\frac{3n^2+n}{2}}(-q; q^3)_n}{(q^3; q^3)_n^2} = \frac{(q^4; q^6)_{\infty}^1}{(q^2; q^6)_{\infty}(q^3; q^6)_{\infty}(q^5; q^6)_{\infty}(q^6; q^6)_{\infty}} \quad (23)$$

$$\sum_{n=0}^{\infty} \frac{q^{2n^2+n}(-q; q^4)_n}{(q^4; q^4)_n^2} = \frac{(q^6; q^8)_{\infty}^1}{(q^3; q^8)_{\infty}(q^4; q^8)_{\infty}(q^7; q^8)_{\infty}(q^8; q^8)_{\infty}} \quad (24)$$

$$\sum_{n=0}^{\infty} \frac{q^{2n^2+n}(-q; q^4)_n}{(q^4; q^4)_n^2} = \frac{(q^6; q^8)_{\infty}^1}{(q^3; q^8)_{\infty}(q^4; q^8)_{\infty}(q^7; q^8)_{\infty}(q^8; q^8)_{\infty}} \quad (25)$$

$$\sum_{n=0}^{\infty} \frac{q^{\frac{5n^2+3n}{2}}(-q; q^5)_n}{(q^5; q^5)_n^2} = \frac{(q^8; q^{10})_{\infty}^1}{(q^4; q^{10})_{\infty}(q^5; q^{10})_{\infty}(q^9; q^{10})_{\infty}(q^{10}; q^{10})_{\infty}} \quad (26)$$

$$\sum_{n=0}^{\infty} \frac{q^{\frac{5n^2+n}{2}}(-q^2; q^5)_n}{(q^5; q^5)_n^2} = \frac{(q^6; q^{10})_{\infty}^1}{(q^3; q^{10})_{\infty}(q^5; q^{10})_{\infty}(q^8; q^{10})_{\infty}(q^{10}; q^{10})_{\infty}} \quad (27)$$

$$\sum_{n=0}^{\infty} \frac{q^{\frac{5n^2+3n}{2}}(-q; q^5)_n}{(q^5; q^5)_n^2} = \frac{(q^8; q^{10})_{\infty}^1}{(q^4; q^{10})_{\infty}(q^5; q^{10})_{\infty}(q^9; q^{10})_{\infty}(q^{10}; q^{10})_{\infty}} \quad (28)$$

$$\sum_{n=0}^{\infty} \frac{q^{3n^2+2n}(-q; q^6)_n}{(q^6; q^6)_n^2} = \frac{(q^{10}; q^{12})_{\infty}^1}{(q^5; q^{12})_{\infty}(q^6; q^{12})_{\infty}(q^{11}; q^{12})_{\infty}(q^{12}; q^{12})_{\infty}} \quad (29)$$

$$\sum_{n=0}^{\infty} \frac{q^{\frac{3n^2+3n}{2}}(-q; q)_{3n}}{(q^6; q^6)_n^2} = \frac{(q^8; q^{12})_{\infty}^1}{(q^3; q^{12})_{\infty}(q^4; q^{12})_{\infty}(q^5; q^{12})_{\infty}(q^6; q^{12})_{\infty}(q^9; q^{12})_{\infty}(q^{11}; q^{12})_{\infty}(q^{12}; q^{12})_{\infty}} \quad (30)$$

$$\sum_{n=0}^{\infty} \frac{q^{n^2}}{(q; q)_n(q; q)_n} = \frac{1}{(q; q)_{\infty}} \quad (31)$$

$$\sum_{n=0}^{\infty} \frac{q^{n^2}}{(q; q^2)_n(q; q)_n} = \frac{1}{(q; q^{14})_{\infty}(q^2; q^{14})_{\infty}(q^3; q^{14})_{\infty}(q^4; q^{14})_{\infty}(q^5; q^{14})_{\infty}(q^7; q^{14})_{\infty}(q^9; q^{14})_{\infty}(q^{10}; q^{14})_{\infty}(q^{11}; q^{14})_{\infty}(q^{12}; q^{14})_{\infty}(q^{13}; q^{14})_{\infty}} \quad (32)$$

$$\sum_{n=0}^{\infty} \frac{q^{\frac{n^2+n}{2}}}{(q; q^2)_n(q; q)_n} = \frac{1}{(q; q^{14})_{\infty}(q^2; q^{14})_{\infty}(q^3; q^{14})_{\infty}^2(q^4; q^{14})_{\infty}(q^5; q^{14})_{\infty}(q^7; q^{14})_{\infty}(q^9; q^{14})_{\infty}(q^{10}; q^{14})_{\infty}(q^{11}; q^{14})_{\infty}^2(q^{12}; q^{14})_{\infty}(q^{13}; q^{14})_{\infty}^2} \quad (33)$$

$$\sum_{n=0}^{\infty} \frac{q^{\frac{n^2+n}{2}}(-q; q)_n}{(q; q)_n} = \frac{1}{(q; q^4)_{\infty}(q^2; q^4)_{\infty}(q^3; q^4)_{\infty}} \quad (34)$$

$$\sum_{n=0}^{\infty} \frac{q^{n^2+n}}{(q; q)_{n+1}(q; q)_n} = \frac{1}{(q; q)_{\infty}} \quad (35)$$

$$\sum_{n=0}^{\infty} \frac{q^{n^2+n}}{(q; q^2)_{n+1}(q; q)_n} = \frac{1}{(q; q^{14})_{\infty}(q^2; q^{14})_{\infty}(q^3; q^{14})_{\infty}(q^5; q^{14})_{\infty}(q^6; q^{14})_{\infty}(q^7; q^{14})_{\infty}(q^8; q^{14})_{\infty}(q^9; q^{14})_{\infty}(q^{11}; q^{14})_{\infty}(q^{12}; q^{14})_{\infty}(q^{13}; q^{14})_{\infty}} \quad (36)$$

$$\sum_{n=0}^{\infty} \frac{q^{\frac{n^2+n}{2}}}{(q; q^2)_{n+1}(q; q)_n} = \frac{1}{(q; q^{14})_{\infty}^2(q^3; q^{14})_{\infty}(q^4; q^{14})_{\infty}(q^5; q^{14})_{\infty}(q^6; q^{14})_{\infty}(q^7; q^{14})_{\infty}(q^8; q^{14})_{\infty}(q^9; q^{14})_{\infty}(q^{10}; q^{14})_{\infty}(q^{11}; q^{14})_{\infty}(q^{13}; q^{14})_{\infty}^2} \quad (37)$$

$$\sum_{n=0}^{\infty} \frac{q^{n^2+2n}}{(q; q^2)_{n+1}(q; q)_n} = \frac{1}{(q; q^{14})_{\infty}(q^3; q^{14})_{\infty}(q^4; q^{14})_{\infty}(q^5; q^{14})_{\infty}(q^6; q^{14})_{\infty}(q^7; q^{14})_{\infty}(q^8; q^{14})_{\infty}(q^9; q^{14})_{\infty}(q^{10}; q^{14})_{\infty}(q^{11}; q^{14})_{\infty}(q^{13}; q^{14})_{\infty}} \quad (38)$$

$$\sum_{n=0}^{\infty} \frac{q^{\frac{n^2+3n}{2}}}{(q; q^2)_{n+1}(q; q)_n} = \frac{1}{(q; q^{14})_{\infty}(q^2; q^{14})_{\infty}(q^3; q^{14})_{\infty}(q^5; q^{14})_{\infty}^2(q^6; q^{14})_{\infty}(q^7; q^{14})_{\infty}(q^8; q^{14})_{\infty}(q^9; q^{14})_{\infty}^2(q^{11}; q^{14})_{\infty}(q^{12}; q^{14})_{\infty}(q^{13}; q^{14})_{\infty}} \quad (39)$$

$$\sum_{n=0}^{\infty} \frac{q^{\frac{3n^2+n}{2}}}{(q; q^2)_{n+1}(q; q)_n} = \frac{1}{(q; q^{10})_{\infty}(q^2; q^{10})_{\infty}(q^3; q^{10})_{\infty}(q^5; q^{10})_{\infty}(q^7; q^{10})_{\infty}(q^8; q^{10})_{\infty}(q^9; q^{10})_{\infty}} \quad (40)$$

$$\sum_{n=0}^{\infty} \frac{q^{\frac{3n^2+3n}{2}}}{(q; q^2)_{n+1}(q; q)_n} = \frac{1}{(q; q^{10})_{\infty}(q^3; q^{10})_{\infty}(q^4; q^{10})_{\infty}(q^5; q^{10})_{\infty}(q^6; q^{10})_{\infty}(q^7; q^{10})_{\infty}(q^9; q^{10})_{\infty}} \quad (41)$$

$$\sum_{n=0}^{\infty} \frac{q^{\frac{n^2+n}{2}}(-q^2; q)_{n+1}}{(q; q)_n} = \frac{1}{(q; q^4)_{\infty}(q^2; q^4)_{\infty}(q^3; q^4)_{\infty}} \quad (42)$$

$$\sum_{n=0}^{\infty} \frac{q^{\frac{n^2+n}{2}}(-q; q)_{n+1}}{(q; q)_n} = \frac{(q^2; q^4)_{\infty}}{(q; q^4)_{\infty}^2(q^3; q^4)_{\infty}^2} \quad (43)$$

$$\sum_{n=0}^{\infty} \frac{q^{\frac{n^2+n}{2}}(-q^2; q)_{n+1}}{(q; q)_n} = \frac{1}{(q; q^4)_{\infty}(q^2; q^4)_{\infty}(q^3; q^4)_{\infty}} \quad (44)$$

$$\sum_{n=0}^{\infty} \frac{q^{\frac{3n^2+5n}{2}}}{(q; q^2)_{n+2}(q; q)_n} = \frac{1}{(q; q^{10})_{\infty}(q^3; q^{10})_{\infty}(q^4; q^{10})_{\infty}(q^5; q^{10})_{\infty}(q^6; q^{10})_{\infty}(q^7; q^{10})_{\infty}(q^9; q^{10})_{\infty}} \quad (45)$$

$$\sum_{n=0}^{\infty} \frac{q^{n^2+2n}}{(q; q)_{n+2}(q; q)_n} = \frac{1}{(q; q)_{\infty}} \quad (46)$$

$$\sum_{n=0}^{\infty} \frac{q^{\frac{n^2+n}{2}}}{(q; q)_n(q; q^2)_n} = \frac{1}{(q; q^{14})_{\infty}(q^2; q^{14})_{\infty}(q^3; q^{14})_{\infty}^2(q^4; q^{14})_{\infty}(q^5; q^{14})_{\infty}(q^7; q^{14})_{\infty}(q^9; q^{14})_{\infty}(q^{10}; q^{14})_{\infty}(q^{11}; q^{14})_{\infty}^2(q^{12}; q^{14})_{\infty}(q^{13}; q^{14})_{\infty}} \quad (47)$$

$$\sum_{n=0}^{\infty} \frac{q^{3n^2}}{(q^4; q^4)_n(q; q^2)_n} = \frac{(q^{10}; q^{20})_{\infty}}{(q^3; q^{20})_{\infty}(q^4; q^{20})_{\infty}(q^5; q^{20})_{\infty}(q^7; q^{20})_{\infty}(q^{13}; q^{20})_{\infty}(q^{15}; q^{20})_{\infty}(q^{16}; q^{20})_{\infty}(q^{17}; q^{20})_{\infty}} \quad (48)$$

$$\sum_{n=0}^{\infty} \frac{q^{n^2}}{(q^4; q^4)_n(q; q^2)_n} = \frac{(q^{14}; q^{28})_{\infty}}{(q; q^{28})_{\infty}(q^4; q^{28})_{\infty}(q^5; q^{28})_{\infty}(q^7; q^{28})_{\infty}(q^9; q^{28})_{\infty}(q^{12}; q^{28})_{\infty}(q^{13}; q^{28})_{\infty}(q^{15}; q^{28})_{\infty}(q^{16}; q^{28})_{\infty}(q^{19}; q^{28})_{\infty}(q^{21}; q^{28})_{\infty}} \quad (49)$$

$$\sum_{n=0}^{\infty} \frac{q^{n^2+2n}}{(q^4; q^4)_n(q; q^2)_n} = \frac{(q^{14}; q^{28})_{\infty}}{(q^3; q^{28})_{\infty}(q^4; q^{28})_{\infty}(q^5; q^{28})_{\infty}(q^7; q^{28})_{\infty}(q^8; q^{28})_{\infty}(q^9; q^{28})_{\infty}(q^{11}; q^{28})_{\infty}(q^{17}; q^{28})_{\infty}(q^{19}; q^{28})_{\infty}(q^{20}; q^{28})_{\infty}(q^{21}; q^{28})_{\infty}} \quad (50)$$

$$\sum_{n=0}^{\infty} \frac{q^{n^2}}{(q^2; q^2)_n(q; q^2)_n} = \frac{1}{(q; q^{20})_{\infty}(q^3; q^{20})_{\infty}(q^4; q^{20})_{\infty}(q^5; q^{20})_{\infty}(q^7; q^{20})_{\infty}(q^9; q^{20})_{\infty}(q^{11}; q^{20})_{\infty}(q^{13}; q^{20})_{\infty}(q^{15}; q^{20})_{\infty}(q^{16}; q^{20})_{\infty}(q^{17}; q^{20})_{\infty}} \quad (51)$$

$$\sum_{n=0}^{\infty} \frac{q^{n^2+n}}{(q^2; q^2)_n(q; q^2)_n} = \frac{1}{(q^2; q^{20})_{\infty}(q^3; q^{20})_{\infty}(q^4; q^{20})_{\infty}(q^5; q^{20})_{\infty}(q^6; q^{20})_{\infty}(q^7; q^{20})_{\infty}(q^{13}; q^{20})_{\infty}(q^{14}; q^{20})_{\infty}(q^{15}; q^{20})_{\infty}(q^{16}; q^{20})_{\infty}(q^{17}; q^{20})_{\infty}} \quad (52)$$

$$\sum_{n=0}^{\infty} \frac{q^{2n^2}}{(q^4; q^4)_n(q; q^2)_n} = \frac{(q^{14}; q^{28})_{\infty}}{(q^2; q^{28})_{\infty}(q^3; q^{28})_{\infty}(q^7; q^{28})_{\infty}(q^8; q^{28})_{\infty}(q^{11}; q^{28})_{\infty}(q^{12}; q^{28})_{\infty}(q^{16}; q^{28})_{\infty}(q^{17}; q^{28})_{\infty}(q^{20}; q^{28})_{\infty}(q^{21}; q^{28})_{\infty}(q^{25}; q^{28})_{\infty}} \quad (53)$$

$$\sum_{n=0}^{\infty} \frac{q^{2n^2+2n}}{(q^4; q^4)_n(q; q^2)_n} = \frac{(q^{14}; q^{28})_{\infty}}{(q^4; q^{28})_{\infty}(q^5; q^{28})_{\infty}(q^6; q^{28})_{\infty}(q^7; q^{28})_{\infty}(q^8; q^{28})_{\infty}(q^9; q^{28})_{\infty}(q^{19}; q^{28})_{\infty}(q^{20}; q^{28})_{\infty}(q^{21}; q^{28})_{\infty}(q^{22}; q^{28})_{\infty}(q^{23}; q^{28})_{\infty}} \quad (54)$$

$$\sum_{n=0}^{\infty} \frac{q^{2n^2}}{(q^2; q^2)_n(q; q^2)_n} = \frac{1}{(q^2; q^{16})_{\infty}(q^3; q^{16})_{\infty}(q^4; q^{16})_{\infty}(q^5; q^{16})_{\infty}(q^{11}; q^{16})_{\infty}(q^{12}; q^{16})_{\infty}(q^{13}; q^{16})_{\infty}(q^{14}; q^{16})_{\infty}} \quad (55)$$

$$\sum_{n=0}^{\infty} \frac{q^{2n^2}}{(q; q^2)_n(q^2; q^2)_n} = \frac{1}{(q^2; q^{16})_{\infty}(q^3; q^{16})_{\infty}(q^4; q^{16})_{\infty}(q^5; q^{16})_{\infty}(q^{11}; q^{16})_{\infty}(q^{12}; q^{16})_{\infty}(q^{13}; q^{16})_{\infty}(q^{14}; q^{16})_{\infty}} \quad (56)$$

$$\sum_{n=0}^{\infty} \frac{q^{n^2}}{(q; q^2)_n(q^2; q^2)_n} = \frac{1}{(q; q^{20})_{\infty}(q^3; q^{20})_{\infty}(q^4; q^{20})_{\infty}(q^5; q^{20})_{\infty}(q^7; q^{20})_{\infty}(q^9; q^{20})_{\infty}(q^{11}; q^{20})_{\infty}(q^{13}; q^{20})_{\infty}(q^{15}; q^{20})_{\infty}(q^{16}; q^{20})_{\infty}(q^{17}; q^{20})_{\infty}} \quad (57)$$

$$\sum_{n=0}^{\infty} \frac{q^{n^2+n}}{(q; q^2)_n(q^2; q^2)_n} = \frac{1}{(q^2; q^{20})_{\infty}(q^3; q^{20})_{\infty}(q^4; q^{20})_{\infty}(q^5; q^{20})_{\infty}(q^6; q^{20})_{\infty}(q^7; q^{20})_{\infty}(q^{13}; q^{20})_{\infty}(q^{14}; q^{20})_{\infty}(q^{15}; q^{20})_{\infty}(q^{16}; q^{20})_{\infty}(q^{17}; q^{20})_{\infty}} \quad (58)$$

$$\sum_{n=0}^{\infty} \frac{q^{n^2}(-q; q)_n}{(q^2; q^2)_n} = \frac{1}{(q; q^5)_{\infty}(q^4; q^5)_{\infty}} \quad (59)$$

$$\sum_{n=0}^{\infty} \frac{q^{n^2+n}(-q; q)_n}{(q^2; q^2)_n} = \frac{1}{(q^2; q^5)_{\infty}(q^3; q^5)_{\infty}} \quad (60)$$

$$\sum_{n=0}^{\infty} \frac{q^{\frac{n^2+n}{2}}(-q; q)_n}{(q^2; q^2)_n} = \frac{1}{(q; q^2)_{\infty}} \quad (61)$$

$$\sum_{n=0}^{\infty} \frac{q^{n^2}(-q; q^2)_n}{(q^2; q^2)_n} = \frac{1}{(q; q^8)_{\infty}(q^4; q^8)_{\infty}(q^7; q^8)_{\infty}} \quad (62)$$

$$\sum_{n=0}^{\infty} \frac{q^{n^2+n}(-q; q^2)_n}{(q^2; q^2)_n} = \frac{1}{(q^2; q^8)_{\infty}(q^3; q^8)_{\infty}(q^7; q^8)_{\infty}} \quad (63)$$

$$\sum_{n=0}^{\infty} \frac{q^{n^2+2n}(-q; q^2)_n}{(q^2; q^2)_n} = \frac{1}{(q^3; q^8)_{\infty}(q^4; q^8)_{\infty}(q^5; q^8)_{\infty}} \quad (64)$$

$$\sum_{n=0}^{\infty} \frac{q^{\frac{n^2+n}{2}}(-q; q)_n^2}{(q^2; q^2)_n} = \frac{1}{(q; q^4)_{\infty}(q^2; q^4)_{\infty}(q^3; q^4)_{\infty}} \quad (65)$$

$$\sum_{n=0}^{\infty} \frac{q^{n^2+n}}{(q; q^2)_{n+1}(q^2; q^2)_n} = \frac{1}{(q; q^{20})_{\infty}(q^2; q^{20})_{\infty}(q^5; q^{20})_{\infty}(q^6; q^{20})_{\infty}(q^8; q^{20})_{\infty}(q^9; q^{20})_{\infty}(q^{11}; q^{20})_{\infty}(q^{12}; q^{20})_{\infty}(q^{14}; q^{20})_{\infty}(q^{15}; q^{20})_{\infty}(q^{18}; q^{20})_{\infty}} \quad (66)$$

$$\sum_{n=0}^{\infty} \frac{q^{n^2+2n}}{(q; q^2)_{n+1}(q^2; q^2)_n} = \frac{1}{(q; q^{20})_{\infty}(q^3; q^{20})_{\infty}(q^5; q^{20})_{\infty}(q^7; q^{20})_{\infty}(q^8; q^{20})_{\infty}(q^9; q^{20})_{\infty}(q^{11}; q^{20})_{\infty}(q^{12}; q^{20})_{\infty}(q^{13}; q^{20})_{\infty}(q^{15}; q^{20})_{\infty}(q^{17}; q^{20})_{\infty}} \quad (67)$$

$$\sum_{n=0}^{\infty} \frac{q^{2n^2+n}}{(q; q^2)_{n+1}(q^2; q^2)_n} = \frac{1}{(q; q^2)_{\infty}} \quad (68)$$

$$\sum_{n=0}^{\infty} \frac{q^{2n^2+2n}}{(q; q^2)_{n+1}(q^2; q^2)_n} = \frac{1}{(q; q^{16})_{\infty}(q^4; q^{16})_{\infty}(q^6; q^{16})_{\infty}(q^7; q^{16})_{\infty}(q^9; q^{16})_{\infty}(q^{10}; q^{16})_{\infty}(q^{12}; q^{16})_{\infty}(q^{15}; q^{16})_{\infty}} \quad (69)$$

$$\sum_{n=0}^{\infty} \frac{q^{n^2+n}(-q; q)_{n+1}}{(q^2; q^2)_n} = \frac{1}{(q; q^5)_{\infty}(q^4; q^5)_{\infty}} \quad (70)$$

$$\sum_{n=0}^{\infty} \frac{q^{n^2+n}(-q; q^2)_{n+1}}{(q^2; q^2)_n} = \frac{1}{(q; q^8)_{\infty}(q^5; q^8)_{\infty}(q^6; q^8)_{\infty}} \quad (71)$$

$$\sum_{n=0}^{\infty} \frac{q^{n^2+n}(-q^3; q^2)_{n+1}}{(q^2; q^2)_n} = \frac{1}{(q^2; q^8)_{\infty}(q^3; q^8)_{\infty}(q^7; q^8)_{\infty}} \quad (72)$$

$$\sum_{n=0}^{\infty} \frac{q^{2n^2+3n}}{(q; q^2)_{n+2}(q^2; q^2)_n} = \frac{1}{(q; q^2)_{\infty}} \quad (73)$$

$$\sum_{n=0}^{\infty} \frac{q^{\frac{3n^2+3n}{2}}(-q^2; q^3)_n}{(q^3; q^3)_n} = \frac{(q^{10}; q^{12})_{\infty}^1}{(q^3; q^{12})_{\infty}(q^5; q^{12})_{\infty}(q^9; q^{12})_{\infty}(q^{11}; q^{12})_{\infty}} \quad (74)$$

$$\sum_{n=0}^{\infty} \frac{q^{\frac{3n^2+3n}{2}}(-q; q^3)_n}{(q^3; q^3)_n} = \frac{(q^8; q^{12})_{\infty}^1}{(q^3; q^{12})_{\infty}(q^4; q^{12})_{\infty}(q^9; q^{12})_{\infty}(q^{10}; q^{12})_{\infty}} \quad (75)$$

$$\sum_{n=0}^{\infty} \frac{q^{3n^2+2n}}{(q^2; q^3)_{n+1}(q^3; q^3)_n} = \frac{1}{(q^2; q^3)_{\infty}} \quad (76)$$

$$\sum_{n=0}^{\infty} \frac{q^{3n^2+n}}{(q; q^3)_{n+1}(q^3; q^3)_n} = \frac{1}{(q; q^3)_{\infty}} \quad (77)$$

$$\sum_{n=0}^{\infty} \frac{q^{\frac{3n^2+3n}{2}}(-q^2; q^3)_{n+1}}{(q^3; q^3)_n} = \frac{(q^4; q^{12})_{\infty}^1}{(q^2; q^{12})_{\infty}(q^3; q^{12})_{\infty}(q^8; q^{12})_{\infty}(q^9; q^{12})_{\infty}} \quad (78)$$

$$\sum_{n=0}^{\infty} \frac{q^{\frac{3n^2+3n}{2}}(-q^4; q^3)_{n+1}}{(q^3; q^3)_n} = \frac{(q^8; q^{12})_{\infty}^1}{(q^3; q^{12})_{\infty}(q^4; q^{12})_{\infty}(q^9; q^{12})_{\infty}(q^{10}; q^{12})_{\infty}} \quad (79)$$

$$\sum_{n=0}^{\infty} \frac{q^{\frac{3n^2+3n}{2}}(-q; q^3)_{n+1}}{(q^3; q^3)_n} = \frac{(q^2; q^{12})_{\infty}^1}{(q; q^{12})_{\infty}(q^3; q^{12})_{\infty}(q^7; q^{12})_{\infty}(q^9; q^{12})_{\infty}} \quad (80)$$

$$\sum_{n=0}^{\infty} \frac{q^{\frac{3n^2+3n}{2}}(-q^5; q^3)_{n+1}}{(q^3; q^3)_n} = \frac{(q^{10}; q^{12})_{\infty}^1}{(q^3; q^{12})_{\infty}(q^5; q^{12})_{\infty}(q^9; q^{12})_{\infty}(q^{11}; q^{12})_{\infty}} \quad (81)$$

$$\sum_{n=0}^{\infty} \frac{q^{3n^2+5n}}{(q^2; q^3)_{n+2}(q^3; q^3)_n} = \frac{1}{(q^2; q^3)_{\infty}} \quad (82)$$

$$\sum_{n=0}^{\infty} \frac{q^{3n^2+4n}}{(q; q^3)_{n+2}(q^3; q^3)_n} = \frac{1}{(q; q^3)_{\infty}} \quad (83)$$

$$\sum_{n=0}^{\infty} \frac{q^{n^2}(-q^2; q^2)_n}{(q^4; q^4)_n} = \frac{(q^2; q^4)_{\infty}^1}{(q; q^4)_{\infty}(q^3; q^4)_{\infty}} \quad (84)$$

$$\sum_{n=0}^{\infty} \frac{q^{n^2}(-q; q^2)_n}{(q^4; q^4)_n} = \frac{(q^3; q^{12})_{\infty}^1(q^6; q^{12})_{\infty}^1(q^9; q^{12})_{\infty}^1}{(q; q^{12})_{\infty}(q^4; q^{12})_{\infty}(q^5; q^{12})_{\infty}(q^7; q^{12})_{\infty}(q^8; q^{12})_{\infty}(q^{11}; q^{12})_{\infty}} \quad (85)$$

$$\sum_{n=0}^{\infty} \frac{q^{n^2+2n}(-q; q^2)_n}{(q^4; q^4)_n} = \frac{(q^6; q^{12})_{\infty}^1}{(q^3; q^{12})_{\infty}(q^4; q^{12})_{\infty}(q^8; q^{12})_{\infty}(q^9; q^{12})_{\infty}} \quad (86)$$

$$\sum_{n=0}^{\infty} \frac{q^{2n^2+2n}(-q; q^4)_n}{(q^4; q^4)_n} = \frac{(q^{10}; q^{16})_{\infty}^1}{(q^4; q^{16})_{\infty}(q^5; q^{16})_{\infty}(q^{12}; q^{16})_{\infty}(q^{13}; q^{16})_{\infty}} \quad (87)$$

$$\sum_{n=0}^{\infty} \frac{q^{2n^2+2n}(-q^3; q^4)_n}{(q^4; q^4)_n} = \frac{(q^{14}; q^{16})_{\infty}^1}{(q^4; q^{16})_{\infty}(q^7; q^{16})_{\infty}(q^{12}; q^{16})_{\infty}(q^{15}; q^{16})_{\infty}} \quad (88)$$

$$\sum_{n=0}^{\infty} \frac{q^{n^2}(-q; q)_{2n}}{(q^4; q^4)_n} = \frac{1}{(q; q^8)_{\infty}(q^4; q^8)_{\infty}(q^7; q^8)_{\infty}} \quad (89)$$

$$\sum_{n=0}^{\infty} \frac{q^{n^2+n}(-q; q)_{2n}}{(q^4; q^4)_n} = \frac{1}{(q^2; q^8)_{\infty}(q^3; q^8)_{\infty}(q^7; q^8)_{\infty}} \quad (90)$$

$$\sum_{n=0}^{\infty} \frac{q^{n^2+2n}(-q; q)_{2n}}{(q^4; q^4)_n} = \frac{1}{(q^3; q^8)_{\infty}(q^4; q^8)_{\infty}(q^5; q^8)_{\infty}} \quad (91)$$

$$\sum_{n=0}^{\infty} \frac{q^{4n^2+n}}{(q; q^4)_{n+1}(q^4; q^4)_n} = \frac{1}{(q; q^4)_{\infty}} \quad (92)$$

$$\sum_{n=0}^{\infty} \frac{q^{4n^2+3n}}{(q^3; q^4)_{n+1}(q^4; q^4)_n} = \frac{1}{(q^3; q^4)_{\infty}} \quad (93)$$

$$\sum_{n=0}^{\infty} \frac{q^{2n^2+2n}(-q; q^4)_{n+1}}{(q^4; q^4)_n} = \frac{(q^2; q^{16})_{\infty}^1}{(q; q^{16})_{\infty}(q^4; q^{16})_{\infty}(q^9; q^{16})_{\infty}(q^{12}; q^{16})_{\infty}} \quad (94)$$

$$\sum_{n=0}^{\infty} \frac{q^{2n^2+2n}(-q^3; q^4)_{n+1}}{(q^4; q^4)_n} = \frac{(q^6; q^{16})_{\infty}^1}{(q^3; q^{16})_{\infty}(q^4; q^{16})_{\infty}(q^{11}; q^{16})_{\infty}(q^{12}; q^{16})_{\infty}} \quad (95)$$

$$\sum_{n=0}^{\infty} \frac{q^{2n^2+2n}(-q^5; q^4)_{n+1}}{(q^4; q^4)_n} = \frac{(q^{10}; q^{16})_{\infty}^1}{(q^4; q^{16})_{\infty}(q^5; q^{16})_{\infty}(q^{12}; q^{16})_{\infty}(q^{13}; q^{16})_{\infty}} \quad (96)$$

$$\sum_{n=0}^{\infty} \frac{q^{n^2+n}(-q; q)_{2n+1}}{(q^4; q^4)_n} = \frac{1}{(q; q^8)_{\infty}(q^5; q^8)_{\infty}(q^6; q^8)_{\infty}} \quad (97)$$

$$\sum_{n=0}^{\infty} \frac{q^{n^2}(-q^2; q)_{2n+1}}{(q^4; q^4)_n} = \frac{1}{(q; q^8)_{\infty}(q^4; q^8)_{\infty}(q^7; q^8)_{\infty}} \quad (98)$$

$$\sum_{n=0}^{\infty} \frac{q^{n^2+n}(-q; q)_{2n+1}}{(q^4; q^4)_n} = \frac{1}{(q; q^8)_{\infty}(q^5; q^8)_{\infty}(q^6; q^8)_{\infty}} \quad (99)$$

$$\sum_{n=0}^{\infty} \frac{q^{4n^2+5n}}{(q; q^4)_{n+2}(q^4; q^4)_n} = \frac{1}{(q; q^4)_{\infty}} \quad (100)$$

$$\sum_{n=0}^{\infty} \frac{q^{\frac{5n^2+5n}{2}}(-q^2; q^5)_n}{(q^5; q^5)_n} = \frac{(q^{14}; q^{20})_{\infty}^1}{(q^5; q^{20})_{\infty}(q^7; q^{20})_{\infty}(q^{15}; q^{20})_{\infty}(q^{17}; q^{20})_{\infty}} \quad (101)$$

$$\sum_{n=0}^{\infty} \frac{q^{\frac{5n^2+5n}{2}}(-q; q^5)_n}{(q^5; q^5)_n} = \frac{(q^{12}; q^{20})_{\infty}^1}{(q^5; q^{20})_{\infty}(q^6; q^{20})_{\infty}(q^{15}; q^{20})_{\infty}(q^{16}; q^{20})_{\infty}} \quad (102)$$

$$\sum_{n=0}^{\infty} \frac{q^{\frac{5n^2+5n}{2}}(-q^4; q^5)_n}{(q^5; q^5)_n} = \frac{(q^{18}; q^{20})_{\infty}^1}{(q^5; q^{20})_{\infty}(q^9; q^{20})_{\infty}(q^{15}; q^{20})_{\infty}(q^{19}; q^{20})_{\infty}} \quad (103)$$

$$\sum_{n=0}^{\infty} \frac{q^{\frac{5n^2+5n}{2}}(-q^3; q^5)_n}{(q^5; q^5)_n} = \frac{(q^{16}; q^{20})_{\infty}^1}{(q^5; q^{20})_{\infty}(q^8; q^{20})_{\infty}(q^{15}; q^{20})_{\infty}(q^{18}; q^{20})_{\infty}} \quad (104)$$

$$\sum_{n=0}^{\infty} \frac{q^{5n^2+2n}}{(q^2; q^5)_{n+1}(q^5; q^5)_n} = \frac{1}{(q^2; q^5)_{\infty}} \quad (105)$$

$$\sum_{n=0}^{\infty} \frac{q^{5n^2+n}}{(q; q^5)_{n+1}(q^5; q^5)_n} = \frac{1}{(q; q^5)_{\infty}} \quad (106)$$

$$\sum_{n=0}^{\infty} \frac{q^{5n^2+4n}}{(q^4; q^5)_{n+1}(q^5; q^5)_n} = \frac{1}{(q^4; q^5)_{\infty}} \quad (107)$$

$$\sum_{n=0}^{\infty} \frac{q^{5n^2+3n}}{(q^3; q^5)_{n+1}(q^5; q^5)_n} = \frac{1}{(q^3; q^5)_{\infty}} \quad (108)$$

$$\sum_{n=0}^{\infty} \frac{q^{\frac{5n^2+5n}{2}}(-q^2; q^5)_{n+1}}{(q^5; q^5)_n} = \frac{(q^4; q^{20})_{\infty}^1}{(q^2; q^{20})_{\infty}(q^5; q^{20})_{\infty}(q^{12}; q^{20})_{\infty}(q^{15}; q^{20})_{\infty}} \quad (109)$$

$$\sum_{n=0}^{\infty} \frac{q^{\frac{5n^2+5n}{2}}(-q; q^5)_{n+1}}{(q^5; q^5)_n} = \frac{(q^2; q^{20})_{\infty}^1}{(q; q^{20})_{\infty}(q^5; q^{20})_{\infty}(q^{11}; q^{20})_{\infty}(q^{15}; q^{20})_{\infty}} \quad (110)$$

$$\sum_{n=0}^{\infty} \frac{q^{\frac{5n^2+5n}{2}}(-q^4; q^5)_{n+1}}{(q^5; q^5)_n} = \frac{(q^8; q^{20})_{\infty}^1}{(q^4; q^{20})_{\infty}(q^5; q^{20})_{\infty}(q^{14}; q^{20})_{\infty}(q^{15}; q^{20})_{\infty}} \quad (111)$$

$$\sum_{n=0}^{\infty} \frac{q^{\frac{5n^2+5n}{2}}(-q^6; q^5)_{n+1}}{(q^5; q^5)_n} = \frac{(q^{12}; q^{20})_{\infty}^1}{(q^5; q^{20})_{\infty}(q^6; q^{20})_{\infty}(q^{15}; q^{20})_{\infty}(q^{16}; q^{20})_{\infty}} \quad (112)$$

$$\sum_{n=0}^{\infty} \frac{q^{\frac{5n^2+5n}{2}}(-q^3; q^5)_{n+1}}{(q^5; q^5)_n} = \frac{(q^6; q^{20})_{\infty}^1}{(q^3; q^{20})_{\infty}(q^5; q^{20})_{\infty}(q^{13}; q^{20})_{\infty}(q^{15}; q^{20})_{\infty}} \quad (113)$$

$$\sum_{n=0}^{\infty} \frac{q^{\frac{3n^2+n}{2}}(-q^3; q^3)_n}{(q^6; q^6)_n} = \frac{(q^4; q^6)_{\infty}^1}{(q^2; q^6)_{\infty}(q^5; q^6)_{\infty}} \quad (114)$$

$$\sum_{n=0}^{\infty} \frac{q^{3n^2+3n}(-q; q^6)_n}{(q^6; q^6)_n} = \frac{(q^{14}; q^{24})_{\infty}^1}{(q^6; q^{24})_{\infty}(q^7; q^{24})_{\infty}(q^{18}; q^{24})_{\infty}(q^{19}; q^{24})_{\infty}} \quad (115)$$

$$\sum_{n=0}^{\infty} \frac{q^{3n^2+3n}(-q^5; q^6)_n}{(q^6; q^6)_n} = \frac{(q^{22}; q^{24})_{\infty}^1}{(q^6; q^{24})_{\infty}(q^{11}; q^{24})_{\infty}(q^{18}; q^{24})_{\infty}(q^{23}; q^{24})_{\infty}} \quad (116)$$

$$\sum_{n=0}^{\infty} \frac{q^{3n^2+3n}(-q; q^6)_{n+1}}{(q^6; q^6)_n} = \frac{(q^2; q^{24})_{\infty}^1}{(q; q^{24})_{\infty}(q^6; q^{24})_{\infty}(q^{13}; q^{24})_{\infty}(q^{18}; q^{24})_{\infty}} \quad (117)$$

$$\sum_{n=0}^{\infty} \frac{q^{3n^2+3n}(-q^5; q^6)_{n+1}}{(q^6; q^6)_n} = \frac{(q^{10}; q^{24})_{\infty}^1}{(q^5; q^{24})_{\infty}(q^6; q^{24})_{\infty}(q^{17}; q^{24})_{\infty}(q^{18}; q^{24})_{\infty}} \quad (118)$$

$$\sum_{n=0}^{\infty} \frac{q^{\frac{n^2+n}{2}}(-q; q)_n}{(q; q)_n} = \frac{1}{(q; q^4)_{\infty}(q^2; q^4)_{\infty}(q^3; q^4)_{\infty}} \quad (119)$$

$$\sum_{n=0}^{\infty} \frac{q^{n^2}(-q; q)_n}{(q^2; q^2)_n} = \frac{1}{(q; q^5)_{\infty}(q^4; q^5)_{\infty}} \quad (120)$$

$$\sum_{n=0}^{\infty} \frac{q^{n^2}(-q; q)_n}{(q; q)_{2n}} = \frac{1}{(q; q^{14})_{\infty} (q^2; q^{14})_{\infty} (q^3; q^{14})_{\infty} (q^4; q^{14})_{\infty} (q^5; q^{14})_{\infty} (q^7; q^{14})_{\infty} (q^9; q^{14})_{\infty} (q^{10}; q^{14})_{\infty} (q^{11}; q^{14})_{\infty} (q^{12}; q^{14})_{\infty} (q^{13}; q^{14})_{\infty}} \quad (121)$$

$$\sum_{n=0}^{\infty} q^{\frac{n^2+3n}{2}} (-q; q)_n = \frac{1}{(q; q^{32})_{\infty} (q^2; q^{32})_{\infty} (q^3; q^{32})_{\infty} (q^5; q^{32})_{\infty} (q^7; q^{32})_{\infty} (q^8; q^{32})_{\infty} (q^9; q^{32})_{\infty} (q^{11}; q^{32})_{\infty} (q^{12}; q^{32})_{\infty} (q^{13}; q^{32})_{\infty} (q^{14}; q^{32})_{\infty} (q^{15}; q^{32})_{\infty} (q^{16}; q^{32})_{\infty} (q^{17}; q^{32})_{\infty} (q^{18}; q^{32})_{\infty} (q^{19}; q^{32})_{\infty} (q^{20}; q^{32})_{\infty} (q^{21}; q^{32})_{\infty} (q^{22}; q^{32})_{\infty} (q^{23}; q^{32})_{\infty} (q^{24}; q^{32})_{\infty} (q^{25}; q^{32})_{\infty} (q^{26}; q^{32})_{\infty} (q^{27}; q^{32})_{\infty} (q^{28}; q^{32})_{\infty} (q^{29}; q^{32})_{\infty} (q^{30}; q^{32})_{\infty} (q^{31}; q^{32})_{\infty}} \quad (122)$$

$$\sum_{n=0}^{\infty} q^{\frac{3n^2+n}{2}} (-q; q)_n = \frac{1}{(q; q^{10})_{\infty} (q^2; q^{10})_{\infty} (q^3; q^{10})_{\infty} (q^5; q^{10})_{\infty} (q^7; q^{10})_{\infty} (q^8; q^{10})_{\infty} (q^9; q^{10})_{\infty}} \quad (123)$$

$$\sum_{n=0}^{\infty} q^{\frac{3n^2+3n}{2}} (-q; q)_n = \frac{1}{(q; q^{10})_{\infty} (q^3; q^{10})_{\infty} (q^4; q^{10})_{\infty} (q^5; q^{10})_{\infty} (q^6; q^{10})_{\infty} (q^7; q^{10})_{\infty} (q^9; q^{10})_{\infty}} \quad (124)$$

$$\sum_{n=0}^{\infty} \frac{q^{n^2+2n}(-q; q)_n}{(q; q)_{2n+1}} = \frac{1}{(q; q^{14})_{\infty} (q^3; q^{14})_{\infty} (q^4; q^{14})_{\infty} (q^5; q^{14})_{\infty} (q^6; q^{14})_{\infty} (q^7; q^{14})_{\infty} (q^8; q^{14})_{\infty} (q^9; q^{14})_{\infty} (q^{10}; q^{14})_{\infty} (q^{11}; q^{14})_{\infty} (q^{13}; q^{14})_{\infty}} \quad (125)$$

$$\sum_{n=0}^{\infty} \frac{q^{n^2}(-q; q^2)_n}{(q^2; q^2)_n^2} = \frac{1}{(q; q^4)_{\infty}(q^3; q^4)_{\infty}(q^4; q^4)_{\infty}} \quad (126)$$

$$\sum_{n=0}^{\infty} \frac{q^{n^2}(-q; q^2)_n}{(q^2; q^2)_n} = \frac{1}{(q; q^8)_{\infty}(q^4; q^8)_{\infty}(q^7; q^8)_{\infty}} \quad (127)$$

$$\sum_{n=0}^{\infty} \frac{q^{n^2+2n}(-q; q^2)_n}{(q^2; q^2)_n} = \frac{1}{(q^3; q^8)_{\infty}(q^4; q^8)_{\infty}(q^5; q^8)_{\infty}} \quad (128)$$

$$\sum_{n=0}^{\infty} \frac{q^{n^2}(-q; q^2)_n}{(q^4; q^4)_n} = \frac{(q^3; q^{12})_{\infty}^1 (q^6; q^{12})_{\infty}^1 (q^9; q^{12})_{\infty}^1}{(q; q^{12})_{\infty} (q^4; q^{12})_{\infty} (q^5; q^{12})_{\infty} (q^7; q^{12})_{\infty} (q^8; q^{12})_{\infty} (q^{11}; q^{12})_{\infty}} \quad (129)$$

$$\sum_{n=0}^{\infty} \frac{q^{n^2+2n}(-q; q^2)_n}{(q^4; q^4)_n} = \frac{(q^6; q^{12})_{\infty}^1}{(q^3; q^{12})_{\infty}(q^4; q^{12})_{\infty}(q^8; q^{12})_{\infty}(q^9; q^{12})_{\infty}} \quad (130)$$

$$\sum_{n=0}^{\infty} \frac{q^{n^2}(-q; q^2)_n}{(q^2; q^2)_{2n}} = \frac{(q^{14}; q^{28})_1^1}{(q; q^{28})_{\infty} (q^4; q^{28})_{\infty} (q^5; q^{28})_{\infty} (q^7; q^{28})_{\infty} (q^9; q^{28})_{\infty} (q^{12}; q^{28})_{\infty} (q^{13}; q^{28})_{\infty} (q^{15}; q^{28})_{\infty} (q^{16}; q^{28})_{\infty} (q^{19}; q^{28})_{\infty} (q^{21}; q^{28})_{\infty} (q^2; q^{28})_{\infty}} \quad (131)$$

$$\sum_{n=0}^{\infty} \frac{q^{n^2+2n}(-q; q^2)_n}{(q^2; q^2)_{2n}} = \frac{(q^{14}; q^{28})_{\infty}^1}{(q^3; q^{28})_{\infty} (q^4; q^{28})_{\infty} (q^5; q^{28})_{\infty} (q^7; q^{28})_{\infty} (q^8; q^{28})_{\infty} (q^9; q^{28})_{\infty} (q^{11}; q^{28})_{\infty} (q^{17}; q^{28})_{\infty} (q^{19}; q^{28})_{\infty} (q^{20}; q^{28})_{\infty} (q^{21}; q^{28})_{\infty}} \quad (132)$$

$$\sum_{n=0}^{\infty} \frac{q^{2n^2}(-q; q^2)_n}{(q^2; q^2)_{2n}} = \frac{(q^{14}; q^{28})_{\infty}^1}{(q^2; q^{28})_{\infty} (q^3; q^{28})_{\infty} (q^7; q^{28})_{\infty} (q^8; q^{28})_{\infty} (q^{11}; q^{28})_{\infty} (q^{12}; q^{28})_{\infty} (q^{16}; q^{28})_{\infty} (q^{17}; q^{28})_{\infty} (q^{20}; q^{28})_{\infty} (q^{21}; q^{28})_{\infty} (q^{25}; q^{28})_{\infty}} \quad (133)$$

$$\sum_{n=0}^{\infty} \frac{q^{2n^2+2n}(-q; q^2)_n}{(q^2; q^2)_{2n}} = \frac{(q^{14}, q^{28})_{\infty}^1}{(q^4, q^{28})_{\infty} (q^5, q^{28})_{\infty} (q^6, q^{28})_{\infty} (q^7, q^{28})_{\infty} (q^8, q^{28})_{\infty} (q^9, q^{28})_{\infty} (q^{19}, q^{28})_{\infty} (q^{20}, q^{28})_{\infty} (q^{21}, q^{28})_{\infty} (q^{22}, q^{28})_{\infty} (q^{23}, q^{28})_{\infty}} \quad (134)$$

$$\sum_{n=0}^{\infty} \frac{q^{n^2+2n}(-q; q^2)_n}{(q; q)_{2n+1}} = \frac{1}{(q; q^{12})_{\infty} (q^3; q^{12})_{\infty} (q^4; q^{12})_{\infty} (q^5; q^{12})_{\infty} (q^6; q^{12})_{\infty} (q^7; q^{12})_{\infty} (q^8; q^{12})_{\infty} (q^9; q^{12})_{\infty} (q^{11}; q^{12})_{\infty}} \quad (135)$$

$$\sum_{n=0}^{\infty} \frac{q^{n^2+n}(-q^2; q^2)_n}{(q; q)_{2n+1}} = \frac{1}{(q; q^{12})_{\infty} (q^2; q^{12})_{\infty} (q^4; q^{12})_{\infty} (q^5; q^{12})_{\infty} (q^6; q^{12})_{\infty} (q^7; q^{12})_{\infty} (q^8; q^{12})_{\infty} (q^{10}; q^{12})_{\infty} (q^{11}; q^{12})_{\infty}} \quad (136)$$

$$\sum_{n=0}^{\infty} \frac{q^{n^2+2n}(-q^2; q^2)_n}{(q; q)_{2n+2}} = \frac{1}{(q; q^{32})_{\infty} (q^2; q^{32})_{\infty} (q^3; q^{32})_{\infty} (q^5; q^{32})_{\infty} (q^7; q^{32})_{\infty} (q^8; q^{32})_{\infty} (q^9; q^{32})_{\infty} (q^{11}; q^{32})_{\infty} (q^{12}; q^{32})_{\infty} (q^{13}; q^{32})_{\infty} (q^{14}; q^{32})_{\infty} (q^{15}; q^{32})_{\infty} (q^{16}; q^{32})_{\infty} (q^{17}; q^{32})_{\infty} (q^{18}; q^{32})_{\infty} (q^{19}; q^{32})_{\infty} (q^{20}; q^{32})_{\infty} (q^{21}; q^{32})_{\infty} (q^{22}; q^{32})_{\infty} (q^{23}; q^{32})_{\infty} (q^{24}; q^{32})_{\infty} (q^{25}; q^{32})_{\infty} (q^{26}; q^{32})_{\infty} (q^{27}; q^{32})_{\infty} (q^{28}; q^{32})_{\infty} (q^{29}; q^{32})_{\infty} (q^{30}; q^{32})_{\infty} (q^{31}; q^{32})_{\infty}} \quad (137)$$

$$\sum_{n=0}^{\infty} \frac{q^{\frac{3n^2+3n}{2}} (-q; q^3)_n}{(q^3; q^3)_n} = \frac{(q^8; q^{12})_{\infty}^1}{(q^3; q^{12})_{\infty} (q^4; q^{12})_{\infty} (q^9; q^{12})_{\infty} (q^{10}; q^{12})_{\infty}} \quad (138)$$

$$\sum_{n=0}^{\infty} \frac{q^{\frac{3n^2+n}{2}} (-q; q^3)_n}{(q^3; q^3)_n^2} = \frac{(q^4; q^6)_\infty^1}{(q^2; q^6)_\infty (q^3; q^6)_\infty (q^5; q^6)_\infty (q^6; q^6)_\infty} \quad (139)$$

$$\sum_{n=0}^{\infty} \frac{q^{2n^2+n}(-q; q^4)_n}{(q^4; q^4)_n^2} = \frac{(q^6; q^8)_{\infty}^1}{(q^3; q^8)_{\infty}(q^4; q^8)_{\infty}(q^7; q^8)_{\infty}(q^8; q^8)_{\infty}} \quad (140)$$

$$\sum_{n=0}^{\infty} \frac{q^{\frac{5n^2+3n}{2}}(-q; q^5)_n}{(q^5; q^5)_n^2} = \frac{(q^8; q^{10})_{\infty}^1}{(q^4; q^{10})_{\infty}(q^5; q^{10})_{\infty}(q^9; q^{10})_{\infty}(q^{10}; q^{10})_{\infty}} \quad (141)$$

$$\sum_{n=0}^{\infty} \frac{q^{\frac{5n^2+5n}{2}}(-q; q^5)_n}{(q^5; q^5)_n} = \frac{(q^{12}; q^{20})_{\infty}^1}{(q^5; q^{20})_{\infty}(q^6; q^{20})_{\infty}(q^{15}; q^{20})_{\infty}(q^{16}; q^{20})_{\infty}} \quad (142)$$

$$\sum_{n=0}^{\infty} \frac{q^{\frac{5n^2+5n}{2}}(-q^3; q^5)_n}{(q^5; q^5)_n} = \frac{(q^{16}; q^{20})_{\infty}^1}{(q^5; q^{20})_{\infty}(q^8; q^{20})_{\infty}(q^{15}; q^{20})_{\infty}(q^{18}; q^{20})_{\infty}} \quad (143)$$

$$\sum_{n=0}^{\infty} \frac{q^{\frac{5n^2+5n}{2}}(-q^4; q^5)_n}{(q^5; q^5)_n} = \frac{(q^{18}; q^{20})_{\infty}^1}{(q^5; q^{20})_{\infty}(q^9; q^{20})_{\infty}(q^{15}; q^{20})_{\infty}(q^{19}; q^{20})_{\infty}} \quad (144)$$

$$\sum_{n=0}^{\infty} \frac{q^{3n^2+2n}(-q; q^6)_n}{(q^6; q^6)_n^2} = \frac{(q^{10}; q^{12})_{\infty}^1}{(q^5; q^{12})_{\infty}(q^6; q^{12})_{\infty}(q^{11}; q^{12})_{\infty}(q^{12}; q^{12})_{\infty}} \quad (145)$$

$$\sum_{n=0}^{\infty} \frac{q^{3n^2+3n}(-q; q^6)_n}{(q^6; q^6)_n} = \frac{(q^{14}; q^{24})_{\infty}^1}{(q^6; q^{24})_{\infty}(q^7; q^{24})_{\infty}(q^{18}; q^{24})_{\infty}(q^{19}; q^{24})_{\infty}} \quad (146)$$

$$\sum_{n=0}^{\infty} \frac{q^{3n^2+2n}(-q^4; q^6)_n}{(q^3; q^3)_{2n+1}} = \frac{(q^{10}; q^{12})_{\infty}^1}{(q^3; q^{12})_{\infty}(q^5; q^{12})_{\infty}(q^9; q^{12})_{\infty}(q^{11}; q^{12})_{\infty}} \quad (147)$$

$$\sum_{n=0}^{\infty} \frac{q^{3n^2+3n}(-q^5; q^6)_n}{(q^6; q^6)_n} = \frac{(q^{22}; q^{24})_{\infty}^1}{(q^6; q^{24})_{\infty}(q^{11}; q^{24})_{\infty}(q^{18}; q^{24})_{\infty}(q^{23}; q^{24})_{\infty}} \quad (148)$$

$$\sum_{n=0}^{\infty} \frac{q^{3n^2+n}(-q^5; q^6)_n}{(q^3; q^3)_{2n+1}} = \frac{(q^8; q^{12})_{\infty}^1}{(q^3; q^{12})_{\infty}(q^4; q^{12})_{\infty}(q^9; q^{12})_{\infty}(q^{10}; q^{12})_{\infty}} \quad (149)$$

$$\sum_{n=0}^{\infty} \frac{q^{n^2}(-q; q)_n^2}{(q^2; q^2)_n^2} = \frac{1}{(q; q)_{\infty}} \quad (150)$$

$$\sum_{n=0}^{\infty} \frac{q^{\frac{n^2+3n}{2}}(-q; q)_n^2}{(q; q)_{2n+1}} = \frac{1}{(q; q^{10})_{\infty}(q^2; q^{10})_{\infty}(q^3; q^{10})_{\infty}^2(q^4; q^{10})_{\infty}(q^5; q^{10})_{\infty}^2(q^6; q^{10})_{\infty}(q^7; q^{10})_{\infty}^2(q^8; q^{10})_{\infty}(q^9; q^{10})_{\infty}} \quad (151)$$

$$\sum_{n=0}^{\infty} \frac{q^{n^2}(-q; q)_n^2}{(q; q)_{2n+1}} = \frac{1}{(q; q^6)_{\infty}^2(q^2; q^6)_{\infty}(q^4; q^6)_{\infty}(q^5; q^6)_{\infty}^2} \quad (152)$$

$$\sum_{n=0}^{\infty} \frac{q^{n^2}(-q; q^2)_n^2}{(q^2; q^2)_{2n}} = \frac{(q^{10}; q^{20})_{\infty}^2}{(q; q^{20})_{\infty}(q^2; q^{20})_{\infty}(q^5; q^{20})_{\infty}^2(q^8; q^{20})_{\infty}^2(q^9; q^{20})_{\infty}(q^{11}; q^{20})_{\infty}(q^{12}; q^{20})_{\infty}^2(q^{15}; q^{20})_{\infty}^2(q^{18}; q^{20})_{\infty}(q^{19}; q^{20})_{\infty}} \quad (153)$$

$$\sum_{n=0}^{\infty} \frac{q^{n^2+2n}(-q; q^2)_n^2}{(q^2; q^2)_{2n}} = \frac{(q^{10}; q^{20})_{\infty}^2}{(q^3; q^{20})_{\infty}(q^4; q^{20})_{\infty}^2(q^5; q^{20})_{\infty}^2(q^6; q^{20})_{\infty}(q^7; q^{20})_{\infty}(q^{13}; q^{20})_{\infty}(q^{14}; q^{20})_{\infty}(q^{15}; q^{20})_{\infty}^2(q^{16}; q^{20})_{\infty}^2(q^{17}; q^{20})_{\infty}} \quad (154)$$

$$\sum_{n=0}^{\infty} \frac{q^{2n^2}(-q; q^2)_n^2}{(q^2; q^2)_{2n}} = \frac{(q^6; q^{12})_{\infty}^2}{(q^2; q^{12})_{\infty}(q^3; q^{12})_{\infty}^2(q^4; q^{12})_{\infty}(q^8; q^{12})_{\infty}(q^9; q^{12})_{\infty}^2(q^{10}; q^{12})_{\infty}} \quad (155)$$

$$\sum_{n=0}^{\infty} \frac{q^{n^2}(-q; q^2)_n^3}{(q^2; q^2)_{2n}} = \frac{(q^4; q^8)_{\infty}^2}{(q; q^8)_{\infty}(q^2; q^8)_{\infty}^2(q^3; q^8)_{\infty}(q^5; q^8)_{\infty}(q^6; q^8)_{\infty}^2(q^7; q^8)_{\infty}} \quad (156)$$

$$\sum_{n=0}^{\infty} \frac{q^{n^2}(-q; q)_n}{(q; q)_{2n}} = \frac{1}{(q; q^{14})_{\infty}(q^2; q^{14})_{\infty}(q^3; q^{14})_{\infty}(q^4; q^{14})_{\infty}(q^5; q^{14})_{\infty}(q^7; q^{14})_{\infty}(q^9; q^{14})_{\infty}(q^{10}; q^{14})_{\infty}(q^{11}; q^{14})_{\infty}(q^{12}; q^{14})_{\infty}(q^{13}; q^{14})_{\infty}} \quad (157)$$

$$\sum_{n=0}^{\infty} \frac{q^{\frac{n^2+n}{2}}(-q; q)_n}{(q; q)_{2n}} = \frac{1}{(q; q^{14})_{\infty}(q^2; q^{14})_{\infty}(q^3; q^{14})_{\infty}^2(q^4; q^{14})_{\infty}(q^5; q^{14})_{\infty}(q^7; q^{14})_{\infty}(q^9; q^{14})_{\infty}(q^{10}; q^{14})_{\infty}(q^{11}; q^{14})_{\infty}^2(q^{12}; q^{14})_{\infty}(q^{13}; q^{14})_{\infty}} \quad (158)$$

$$\sum_{n=0}^{\infty} \frac{q^{n^2}(-q; q^2)_n}{(q; q)_{2n}} = \frac{(q^6; q^{12})_{\infty}^1}{(q; q^{12})_{\infty}(q^2; q^{12})_{\infty}(q^3; q^{12})_{\infty}(q^4; q^{12})_{\infty}(q^5; q^{12})_{\infty}(q^7; q^{12})_{\infty}(q^8; q^{12})_{\infty}(q^9; q^{12})_{\infty}(q^{10}; q^{12})_{\infty}(q^{11}; q^{12})_{\infty}} \quad (159)$$

$$\sum_{n=0}^{\infty} \frac{q^{3n^2}(-q; q^2)_n}{(q^2; q^2)_{2n}} = \frac{(q^{10}; q^{20})_{\infty}^1}{(q^3; q^{20})_{\infty}(q^4; q^{20})_{\infty}(q^5; q^{20})_{\infty}(q^7; q^{20})_{\infty}(q^{13}; q^{20})_{\infty}(q^{15}; q^{20})_{\infty}(q^{16}; q^{20})_{\infty}(q^{17}; q^{20})_{\infty}} \quad (160)$$

$$\sum_{n=0}^{\infty} \frac{q^{n^2}(-q; q^2)_n}{(q^2; q^2)_{2n}} = \frac{(q^{14}; q^{28})_{\infty}^1}{(q; q^{28})_{\infty} (q^4; q^{28})_{\infty} (q^5; q^{28})_{\infty} (q^7; q^{28})_{\infty} (q^9; q^{28})_{\infty} (q^{12}; q^{28})_{\infty} (q^{13}; q^{28})_{\infty} (q^{15}; q^{28})_{\infty} (q^{16}; q^{28})_{\infty} (q^{19}; q^{28})_{\infty} (q^{21}; q^{28})_{\infty} (q^{22}; q^{28})_{\infty}} \quad (161)$$

$$\sum_{n=0}^{\infty} \frac{q^{n^2+2n}(-q; q^2)_n}{(q^2; q^2)_{2n}} = \frac{(q^{14}; q^{28})_{\infty}^1}{(q^3; q^{28})_{\infty} (q^4; q^{28})_{\infty} (q^5; q^{28})_{\infty} (q^7; q^{28})_{\infty} (q^8; q^{28})_{\infty} (q^9; q^{28})_{\infty} (q^{11}; q^{28})_{\infty} (q^{17}; q^{28})_{\infty} (q^{19}; q^{28})_{\infty} (q^{20}; q^{28})_{\infty} (q^{21}; q^{28})_{\infty}} \quad (162)$$

$$\sum_{n=0}^{\infty} \frac{q^{2n^2}(-q; q^2)_n}{(q^2; q^2)_{2n}} = \frac{(q^{14}, q^{28})_{\infty}^1}{(q^2; q^{28})_{\infty} (q^3; q^{28})_{\infty} (q^7; q^{28})_{\infty} (q^8; q^{28})_{\infty} (q^{11}; q^{28})_{\infty} (q^{12}; q^{28})_{\infty} (q^{16}; q^{28})_{\infty} (q^{17}; q^{28})_{\infty} (q^{20}; q^{28})_{\infty} (q^{21}; q^{28})_{\infty} (q^{25}; q^{28})_{\infty}} \quad (163)$$

$$\sum_{n=0}^{\infty} \frac{q^{2n^2+2n}(-q; q^2)_n}{(q^2; q^2)_{2n}} = \frac{(q^{14}; q^{28})_{\infty}^1}{(q^4; q^{28})_{\infty} (q^5; q^{28})_{\infty} (q^6; q^{28})_{\infty} (q^7; q^{28})_{\infty} (q^8; q^{28})_{\infty} (q^9; q^{28})_{\infty} (q^{19}; q^{28})_{\infty} (q^{20}; q^{28})_{\infty} (q^{21}; q^{28})_{\infty} (q^{22}; q^{28})_{\infty} (q^{23}; q^{28})_{\infty}} \quad (164)$$

$$\sum_{n=0}^{\infty} \frac{q^{n^2}(-q^3; q^6)_n}{(q^2; q^2)_{2n}} = \frac{(q^2; q^{24})_{\infty}^1 (q^{10}; q^{24})_{\infty}^1 (q^{14}; q^{24})_{\infty}^1 (q^{22}; q^{24})_{\infty}^1}{(q; q^{24})_{\infty} (q^3; q^{24})_{\infty} (q^4; q^{24})_{\infty} (q^5; q^{24})_{\infty} (q^7; q^{24})_{\infty} (q^9; q^{24})_{\infty} (q^{11}; q^{24})_{\infty} (q^{13}; q^{24})_{\infty} (q^{15}; q^{24})_{\infty} (q^{17}; q^{24})_{\infty} (q^{19}; q^{24})_{\infty} (q^{23}; q^{24})_{\infty}} \quad (165)$$

$$\sum_{n=0}^{\infty} \frac{q^{n^2}(-q; q^2)_n}{(q^2; q^2)_{2n}} = \frac{(q^{10}; q^{20})_{\infty}^2}{(q; q^{20})_{\infty} (q^2; q^{20})_{\infty} (q^5; q^{20})_{\infty}^2 (q^8; q^{20})_{\infty}^2 (q^9; q^{20})_{\infty} (q^{11}; q^{20})_{\infty} (q^{12}; q^{20})_{\infty}^2 (q^{15}; q^{20})_{\infty}^2 (q^{18}; q^{20})_{\infty} (q^{19}; q^{20})_{\infty}} \quad (166)$$

$$\sum_{n=0}^{\infty} \frac{q^{n^2+2n}(-q; q^2)_n^2}{(q^2; q^2)_{2n}} = \frac{(q^{10}; q^{20})_{\infty}^2}{(q^3; q^{20})_{\infty} (q^4; q^{20})_{\infty}^2 (q^5; q^{20})_{\infty}^2 (q^6; q^{20})_{\infty} (q^7; q^{20})_{\infty} (q^{13}; q^{20})_{\infty} (q^{14}; q^{20})_{\infty} (q^{15}; q^{20})_{\infty}^2 (q^{16}; q^{20})_{\infty}^2 (q^{17}; q^{20})_{\infty}} \quad (167)$$

$$\sum_{n=0}^{\infty} \frac{q^{2n^2}(-q; q^2)_n^2}{(q^2; q^2)_{2n}} = \frac{(q^6; q^{12})_{\infty}^2}{(q^2; q^{12})_{\infty} (q^3; q^{12})_{\infty}^2 (q^4; q^{12})_{\infty} (q^8; q^{12})_{\infty} (q^9; q^{12})_{\infty}^2 (q^{10}; q^{12})_{\infty}} \quad (168)$$

$$\sum_{n=0}^{\infty} \frac{q^{n^2}(-q; q^2)_n^3}{(q^2; q^2)_{2n}} = \frac{(q^4; q^8)_{\infty}^2}{(q; q^8)_{\infty} (q^2; q^8)_{\infty}^2 (q^3; q^8)_{\infty} (q^5; q^8)_{\infty} (q^6; q^8)_{\infty}^2 (q^7; q^8)_{\infty}} \quad (169)$$

$$\sum_{n=0}^{\infty} \frac{q^{n^2+n}(-q; q)_{2n}}{(q^2; q^2)_{2n}} = \frac{1}{(q^2; q^{20})_{\infty} (q^3; q^{20})_{\infty} (q^4; q^{20})_{\infty} (q^5; q^{20})_{\infty} (q^6; q^{20})_{\infty} (q^7; q^{20})_{\infty} (q^{13}; q^{20})_{\infty} (q^{14}; q^{20})_{\infty} (q^{15}; q^{20})_{\infty} (q^{16}; q^{20})_{\infty} (q^{17}; q^{20})_{\infty} (q^{18}; q^{20})_{\infty} (q^{19}; q^{20})_{\infty}} \quad (170)$$

$$\sum_{n=0}^{\infty} \frac{q^{2n^2}(-q; q)_{2n}}{(q^2; q^2)_{2n}} = \frac{1}{(q^2; q^{16})_{\infty} (q^3; q^{16})_{\infty} (q^4; q^{16})_{\infty} (q^5; q^{16})_{\infty} (q^{11}; q^{16})_{\infty} (q^{12}; q^{16})_{\infty} (q^{13}; q^{16})_{\infty} (q^{14}; q^{16})_{\infty}} \quad (171)$$

$$\sum_{n=0}^{\infty} \frac{q^{n^2}(-q; q)_{2n}}{(q^2; q^2)_{2n}} = \frac{1}{(q; q^{20})_{\infty} (q^3; q^{20})_{\infty} (q^4; q^{20})_{\infty} (q^5; q^{20})_{\infty} (q^7; q^{20})_{\infty} (q^9; q^{20})_{\infty} (q^{11}; q^{20})_{\infty} (q^{13}; q^{20})_{\infty} (q^{15}; q^{20})_{\infty} (q^{16}; q^{20})_{\infty} (q^{17}; q^{20})_{\infty} (q^{19}; q^{20})_{\infty}} \quad (172)$$

$$\sum_{n=0}^{\infty} \frac{q^{n^2+n}(-q; q)_{2n}}{(q^2; q^2)_{2n}} = \frac{1}{(q^2; q^{20})_{\infty} (q^3; q^{20})_{\infty} (q^4; q^{20})_{\infty} (q^5; q^{20})_{\infty} (q^6; q^{20})_{\infty} (q^7; q^{20})_{\infty} (q^{13}; q^{20})_{\infty} (q^{14}; q^{20})_{\infty} (q^{15}; q^{20})_{\infty} (q^{16}; q^{20})_{\infty} (q^{17}; q^{20})_{\infty} (q^{18}; q^{20})_{\infty} (q^{19}; q^{20})_{\infty}} \quad (173)$$

$$\sum_{n=0}^{\infty} \frac{q^{4n^2}(-q; q^2)_{2n}}{(q^4; q^4)_{2n}} = \frac{(q^{10}; q^{24})_{\infty} (q^{14}; q^{24})_{\infty}}{(q^4; q^{24})_{\infty} (q^5; q^{24})_{\infty} (q^7; q^{24})_{\infty} (q^8; q^{24})_{\infty} (q^{16}; q^{24})_{\infty} (q^{17}; q^{24})_{\infty} (q^{19}; q^{24})_{\infty} (q^{20}; q^{24})_{\infty}} \quad (174)$$

$$\sum_{n=0}^{\infty} \frac{q^{3n^2}(-q; q^2)_{3n}}{(q^6; q^6)_{2n}} = \frac{1}{(q^3; q^{24})_{\infty} (q^4; q^{24})_{\infty} (q^9; q^{24})_{\infty} (q^{15}; q^{24})_{\infty} (q^{20}; q^{24})_{\infty} (q^{21}; q^{24})_{\infty}} \quad (175)$$

$$\sum_{n=0}^{\infty} \frac{q^{n^2+n}(-q; q)_{2n}}{(q^4; q^4)_n} = \frac{1}{(q^2; q^8)_{\infty}(q^3; q^8)_{\infty}(q^7; q^8)_{\infty}} \quad (176)$$

$$\sum_{n=0}^{\infty} \frac{q^{2n^2}(-q; q)_{2n}}{(q^2; q^2)_{2n}} = \frac{1}{(q^2; q^{16})_{\infty} (q^3; q^{16})_{\infty} (q^4; q^{16})_{\infty} (q^5; q^{16})_{\infty} (q^{11}; q^{16})_{\infty} (q^{12}; q^{16})_{\infty} (q^{13}; q^{16})_{\infty} (q^{14}; q^{16})_{\infty}} \quad (177)$$

$$\sum_{n=0}^{\infty} \frac{q^{n^2+n}(-q; q)_{2n}}{(q^2; q^2)_{2n}} = \frac{1}{(q^2; q^{20})_{\infty} (q^3; q^{20})_{\infty} (q^4; q^{20})_{\infty} (q^5; q^{20})_{\infty} (q^6; q^{20})_{\infty} (q^7; q^{20})_{\infty} (q^{13}; q^{20})_{\infty} (q^{14}; q^{20})_{\infty} (q^{15}; q^{20})_{\infty} (q^{16}; q^{20})_{\infty} (q^{17}; q^{20})_{\infty} (q^{18}; q^{20})_{\infty} (q^{19}; q^{20})_{\infty}} \quad (178)$$

$$\sum_{n=0}^{\infty} \frac{q^{3n^2}(-q; q^2)_{3n}}{(q^6; q^6)_{2n}} = \frac{1}{(q^3; q^{24})_{\infty} (q^4; q^{24})_{\infty} (q^9; q^{24})_{\infty} (q^{15}; q^{24})_{\infty} (q^{20}; q^{24})_{\infty} (q^{21}; q^{24})_{\infty}} \quad (179)$$

$$\sum_{n=0}^{\infty} \frac{q^{n^2+n}}{(q; q)_n (q; q)_{n+1}} = \frac{1}{(q; q)_{\infty}} \quad (180)$$

$$\sum_{n=0}^{\infty} \frac{q^{\frac{n^2+3n}{2}}(-q; q)_n}{(q; q)_{n+1}} = \frac{1}{(q; q^{32})_{\infty}(q^2; q^{32})_{\infty}(q^3; q^{32})_{\infty}(q^5; q^{32})_{\infty}(q^7; q^{32})_{\infty}(q^8; q^{32})_{\infty}(q^9; q^{32})_{\infty}(q^{11}; q^{32})_{\infty}(q^{12}; q^{32})_{\infty}(q^{13}; q^{32})_{\infty}(q^{14}; q^{32})_{\infty}(q^{15}; q^{32})_{\infty}(q^{17}; q^{32})_{\infty}(q^{18}; q^{32})_{\infty}(q^{19}; q^{32})_{\infty}(q^{20}; q^{32})_{\infty}(q^{21}; q^{32})_{\infty}(q^{22}; q^{32})_{\infty}(q^{23}; q^{32})_{\infty}(q^{24}; q^{32})_{\infty}(q^{25}; q^{32})_{\infty}(q^{26}; q^{32})_{\infty}(q^{27}; q^{32})_{\infty}(q^{28}; q^{32})_{\infty}(q^{29}; q^{32})_{\infty}(q^{30}; q^{32})_{\infty}(q^{31}; q^{32})_{\infty}} \quad (181)$$

$$\sum_{n=0}^{\infty} \frac{q^{n^2+n}}{(q; q)_n(q; q^2)_{n+1}} = \frac{1}{(q; q^{14})_{\infty}(q^2; q^{14})_{\infty}(q^3; q^{14})_{\infty}(q^5; q^{14})_{\infty}(q^6; q^{14})_{\infty}(q^7; q^{14})_{\infty}(q^8; q^{14})_{\infty}(q^9; q^{14})_{\infty}(q^{11}; q^{14})_{\infty}(q^{12}; q^{14})_{\infty}(q^{13}; q^{14})_{\infty}(q^{14}; q^{14})_{\infty}} \quad (182)$$

$$\sum_{n=0}^{\infty} \frac{q^{\frac{n^2+n}{2}}}{(q; q)_n(q; q^2)_{n+1}} = \frac{1}{(q; q^{14})_{\infty}^2(q^3; q^{14})_{\infty}(q^4; q^{14})_{\infty}(q^5; q^{14})_{\infty}(q^6; q^{14})_{\infty}(q^7; q^{14})_{\infty}(q^8; q^{14})_{\infty}(q^9; q^{14})_{\infty}(q^{10}; q^{14})_{\infty}(q^{11}; q^{14})_{\infty}(q^{13}; q^{14})_{\infty}^2(q^{14}; q^{14})_{\infty}} \quad (183)$$

$$\sum_{n=0}^{\infty} \frac{q^{\frac{n^2+3n}{2}}}{(q; q)_n(q; q^2)_{n+1}} = \frac{1}{(q; q^{14})_{\infty}(q^2; q^{14})_{\infty}(q^3; q^{14})_{\infty}(q^5; q^{14})_{\infty}^2(q^6; q^{14})_{\infty}(q^7; q^{14})_{\infty}(q^8; q^{14})_{\infty}(q^9; q^{14})_{\infty}^2(q^{11}; q^{14})_{\infty}(q^{12}; q^{14})_{\infty}(q^{13}; q^{14})_{\infty}(q^{14}; q^{14})_{\infty}} \quad (184)$$

$$\sum_{n=0}^{\infty} \frac{q^{\frac{3n^2+n}{2}}}{(q; q)_n(q; q^2)_{n+1}} = \frac{1}{(q; q^{10})_{\infty}(q^2; q^{10})_{\infty}(q^3; q^{10})_{\infty}(q^5; q^{10})_{\infty}(q^7; q^{10})_{\infty}(q^8; q^{10})_{\infty}(q^9; q^{10})_{\infty}} \quad (185)$$

$$\sum_{n=0}^{\infty} \frac{q^{n^2+n}}{(q^2; q^2)_n(q; q^2)_{n+1}} = \frac{1}{(q; q^{20})_{\infty}(q^2; q^{20})_{\infty}(q^5; q^{20})_{\infty}(q^6; q^{20})_{\infty}(q^8; q^{20})_{\infty}(q^9; q^{20})_{\infty}(q^{11}; q^{20})_{\infty}(q^{12}; q^{20})_{\infty}(q^{14}; q^{20})_{\infty}(q^{15}; q^{20})_{\infty}(q^{18}; q^{20})_{\infty}(q^{19}; q^{20})_{\infty}(q^{20}; q^{20})_{\infty}} \quad (186)$$

$$\sum_{n=0}^{\infty} \frac{q^{\frac{3n^2+3n}{2}}}{(q; q)_n(q; q^2)_{n+1}} = \frac{1}{(q; q^{10})_{\infty}(q^3; q^{10})_{\infty}(q^4; q^{10})_{\infty}(q^5; q^{10})_{\infty}(q^6; q^{10})_{\infty}(q^7; q^{10})_{\infty}(q^9; q^{10})_{\infty}} \quad (187)$$

$$\sum_{n=0}^{\infty} \frac{q^{n^2+2n}}{(q^2; q^2)_n(q; q^2)_{n+1}} = \frac{1}{(q; q^{20})_{\infty}(q^3; q^{20})_{\infty}(q^5; q^{20})_{\infty}(q^7; q^{20})_{\infty}(q^8; q^{20})_{\infty}(q^9; q^{20})_{\infty}(q^{11}; q^{20})_{\infty}(q^{12}; q^{20})_{\infty}(q^{13}; q^{20})_{\infty}(q^{15}; q^{20})_{\infty}(q^{17}; q^{20})_{\infty}(q^{18}; q^{20})_{\infty}(q^{19}; q^{20})_{\infty}(q^{20}; q^{20})_{\infty}} \quad (188)$$

$$\sum_{n=0}^{\infty} \frac{q^{2n^2+n}}{(q^2; q^2)_n(q; q^2)_{n+1}} = \frac{1}{(q; q^2)_{\infty}} \quad (189)$$

$$\sum_{n=0}^{\infty} \frac{q^{2n^2+2n}}{(q^2; q^2)_n(q; q^2)_{n+1}} = \frac{1}{(q; q^{16})_{\infty}(q^4; q^{16})_{\infty}(q^6; q^{16})_{\infty}(q^7; q^{16})_{\infty}(q^9; q^{16})_{\infty}(q^{10}; q^{16})_{\infty}(q^{12}; q^{16})_{\infty}(q^{15}; q^{16})_{\infty}} \quad (190)$$

$$\sum_{n=0}^{\infty} \frac{q^{3n^2+2n}}{(q^4; q^4)_n(q; q^2)_{n+1}} = \frac{(q^{10}; q^{20})_{\infty}^1}{(q; q^{20})_{\infty}(q^5; q^{20})_{\infty}(q^8; q^{20})_{\infty}(q^9; q^{20})_{\infty}(q^{11}; q^{20})_{\infty}(q^{12}; q^{20})_{\infty}(q^{15}; q^{20})_{\infty}(q^{19}; q^{20})_{\infty}} \quad (191)$$

$$\sum_{n=0}^{\infty} \frac{q^{n^2+2n}}{(q^4; q^4)_n(q; q^2)_{n+1}} = \frac{(q^{14}; q^{28})_{\infty}^1}{(q; q^{28})_{\infty}(q^3; q^{28})_{\infty}(q^7; q^{28})_{\infty}(q^8; q^{28})_{\infty}(q^{11}; q^{28})_{\infty}(q^{12}; q^{28})_{\infty}(q^{13}; q^{28})_{\infty}(q^{15}; q^{28})_{\infty}(q^{16}; q^{28})_{\infty}(q^{17}; q^{28})_{\infty}(q^{20}; q^{28})_{\infty}(q^{21}; q^{28})_{\infty}(q^{22}; q^{28})_{\infty}(q^{23}; q^{28})_{\infty}(q^{24}; q^{28})_{\infty}(q^{25}; q^{28})_{\infty}(q^{26}; q^{28})_{\infty}(q^{27}; q^{28})_{\infty}(q^{28}; q^{28})_{\infty}} \quad (192)$$

$$\sum_{n=0}^{\infty} \frac{q^{2n^2+2n}}{(q^4; q^4)_n(q; q^2)_{n+1}} = \frac{(q^{14}; q^{28})_{\infty}^1}{(q; q^{28})_{\infty}(q^4; q^{28})_{\infty}(q^7; q^{28})_{\infty}(q^{10}; q^{28})_{\infty}(q^{12}; q^{28})_{\infty}(q^{13}; q^{28})_{\infty}(q^{15}; q^{28})_{\infty}(q^{16}; q^{28})_{\infty}(q^{18}; q^{28})_{\infty}(q^{21}; q^{28})_{\infty}(q^{24}; q^{28})_{\infty}(q^{25}; q^{28})_{\infty}(q^{26}; q^{28})_{\infty}(q^{27}; q^{28})_{\infty}(q^{28}; q^{28})_{\infty}} \quad (193)$$

$$\sum_{n=0}^{\infty} \frac{q^{3n^2+n}}{(q^3; q^3)_n(q; q^3)_{n+1}} = \frac{1}{(q; q^3)_{\infty}} \quad (194)$$

$$\sum_{n=0}^{\infty} \frac{q^{3n^2+2n}}{(q^3; q^3)_n(q^2; q^3)_{n+1}} = \frac{1}{(q^2; q^3)_{\infty}} \quad (195)$$

$$\sum_{n=0}^{\infty} \frac{q^{4n^2+n}}{(q^4; q^4)_n(q; q^4)_{n+1}} = \frac{1}{(q; q^4)_{\infty}} \quad (196)$$

$$\sum_{n=0}^{\infty} \frac{q^{4n^2+3n}}{(q^4; q^4)_n(q^3; q^4)_{n+1}} = \frac{1}{(q^3; q^4)_{\infty}} \quad (197)$$

$$\sum_{n=0}^{\infty} \frac{q^{5n^2+n}}{(q^5; q^5)_n(q; q^5)_{n+1}} = \frac{1}{(q; q^5)_{\infty}} \quad (198)$$

$$\sum_{n=0}^{\infty} \frac{q^{5n^2+2n}}{(q^5; q^5)_n(q^2; q^5)_{n+1}} = \frac{1}{(q^2; q^5)_{\infty}} \quad (199)$$

$$\sum_{n=0}^{\infty} \frac{q^{5n^2+3n}}{(q^5; q^5)_n(q^3; q^5)_{n+1}} = \frac{1}{(q^3; q^5)_{\infty}} \quad (200)$$

$$\sum_{n=0}^{\infty} \frac{q^{5n^2+4n}}{(q^5; q^5)_n (q^4; q^5)_{n+1}} = \frac{1}{(q^4; q^5)_{\infty}} \quad (201)$$

$$\sum_{n=0}^{\infty} \frac{q^{\frac{n^2+n}{2}} (-q^2; q)_{n+1}}{(q; q)_n} = \frac{1}{(q; q^4)_{\infty} (q^2; q^4)_{\infty} (q^3; q^4)_{\infty}} \quad (202)$$

$$\sum_{n=0}^{\infty} \frac{q^{n^2+2n} (-q; q^2)_{n+1}}{(q^2; q^2)_{2n+1}} = \frac{(q^{14}; q^{28})_{\infty}^1}{(q; q^{28})_{\infty} (q^3; q^{28})_{\infty} (q^7; q^{28})_{\infty} (q^8; q^{28})_{\infty} (q^{11}; q^{28})_{\infty} (q^{12}; q^{28})_{\infty} (q^{13}; q^{28})_{\infty} (q^{15}; q^{28})_{\infty} (q^{16}; q^{28})_{\infty} (q^{17}; q^{28})_{\infty} (q^{20}; q^{28})_{\infty} (q^{24}; q^{28})_{\infty}} \quad (203)$$

$$\sum_{n=0}^{\infty} \frac{q^{2n^2+2n} (-q; q^2)_{n+1}}{(q^2; q^2)_{2n+1}} = \frac{(q^{14}; q^{28})_{\infty}^1}{(q; q^{28})_{\infty} (q^4; q^{28})_{\infty} (q^7; q^{28})_{\infty} (q^{10}; q^{28})_{\infty} (q^{12}; q^{28})_{\infty} (q^{13}; q^{28})_{\infty} (q^{15}; q^{28})_{\infty} (q^{16}; q^{28})_{\infty} (q^{18}; q^{28})_{\infty} (q^{21}; q^{28})_{\infty} (q^{24}; q^{28})_{\infty}} \quad (204)$$

$$\sum_{n=0}^{\infty} \frac{q^{3n^2+2n} (-q; q^2)_{n+1}}{(q^2; q^2)_{2n+1}} = \frac{(q^{10}; q^{20})_{\infty}^1}{(q; q^{20})_{\infty} (q^5; q^{20})_{\infty} (q^8; q^{20})_{\infty} (q^9; q^{20})_{\infty} (q^{11}; q^{20})_{\infty} (q^{12}; q^{20})_{\infty} (q^{15}; q^{20})_{\infty} (q^{19}; q^{20})_{\infty}} \quad (205)$$

$$\sum_{n=0}^{\infty} \frac{q^{n^2+n} (-q^3; q^2)_{n+1}}{(q^2; q^2)_n} = \frac{1}{(q^2; q^8)_{\infty} (q^3; q^8)_{\infty} (q^7; q^8)_{\infty}} \quad (206)$$

$$\sum_{n=0}^{\infty} \frac{q^{\frac{3n^2+3n}{2}} (-q^4; q^3)_{n+1}}{(q^3; q^3)_n} = \frac{(q^8; q^{12})_{\infty}^1}{(q^3; q^{12})_{\infty} (q^4; q^{12})_{\infty} (q^9; q^{12})_{\infty} (q^{10}; q^{12})_{\infty}} \quad (207)$$

$$\sum_{n=0}^{\infty} \frac{q^{\frac{3n^2+3n}{2}} (-q^5; q^3)_{n+1}}{(q^3; q^3)_n} = \frac{(q^{10}; q^{12})_{\infty}^1}{(q^3; q^{12})_{\infty} (q^5; q^{12})_{\infty} (q^9; q^{12})_{\infty} (q^{11}; q^{12})_{\infty}} \quad (208)$$

$$\sum_{n=0}^{\infty} \frac{q^{\frac{5n^2+5n}{2}} (-q^2; q^5)_{n+1}}{(q^5; q^5)_n} = \frac{(q^4; q^{20})_{\infty}^1}{(q^2; q^{20})_{\infty} (q^5; q^{20})_{\infty} (q^{12}; q^{20})_{\infty} (q^{15}; q^{20})_{\infty}} \quad (209)$$

$$\sum_{n=0}^{\infty} \frac{q^{\frac{5n^2+5n}{2}} (-q^4; q^5)_{n+1}}{(q^5; q^5)_n} = \frac{(q^8; q^{20})_{\infty}^1}{(q^4; q^{20})_{\infty} (q^5; q^{20})_{\infty} (q^{14}; q^{20})_{\infty} (q^{15}; q^{20})_{\infty}} \quad (210)$$

$$\sum_{n=0}^{\infty} \frac{q^{\frac{5n^2+5n}{2}} (-q^6; q^5)_{n+1}}{(q^5; q^5)_n} = \frac{(q^{12}; q^{20})_{\infty}^1}{(q^5; q^{20})_{\infty} (q^6; q^{20})_{\infty} (q^{15}; q^{20})_{\infty} (q^{16}; q^{20})_{\infty}} \quad (211)$$

$$\sum_{n=0}^{\infty} \frac{q^{n^2+n} (-q; q)_n}{(q; q)_{2n+1}} = \frac{1}{(q; q^{14})_{\infty} (q^2; q^{14})_{\infty} (q^3; q^{14})_{\infty} (q^5; q^{14})_{\infty} (q^6; q^{14})_{\infty} (q^7; q^{14})_{\infty} (q^8; q^{14})_{\infty} (q^9; q^{14})_{\infty} (q^{11}; q^{14})_{\infty} (q^{12}; q^{14})_{\infty} (q^{13}; q^{14})_{\infty} (q^{14}; q^{14})_{\infty}} \quad (212)$$

$$\sum_{n=0}^{\infty} \frac{q^{\frac{n^2+n}{2}} (-q; q)_n}{(q; q)_{2n+1}} = \frac{1}{(q; q^{14})_{\infty}^2 (q^3; q^{14})_{\infty} (q^4; q^{14})_{\infty} (q^5; q^{14})_{\infty} (q^6; q^{14})_{\infty} (q^7; q^{14})_{\infty} (q^8; q^{14})_{\infty} (q^9; q^{14})_{\infty} (q^{10}; q^{14})_{\infty} (q^{11}; q^{14})_{\infty} (q^{13}; q^{14})_{\infty}^2 (q^{14}; q^{14})_{\infty}^2} \quad (213)$$

$$\sum_{n=0}^{\infty} \frac{q^{n^2+2n} (-q; q)_n}{(q; q)_{2n+1}} = \frac{1}{(q; q^{14})_{\infty} (q^3; q^{14})_{\infty} (q^4; q^{14})_{\infty} (q^5; q^{14})_{\infty} (q^6; q^{14})_{\infty} (q^7; q^{14})_{\infty} (q^8; q^{14})_{\infty} (q^9; q^{14})_{\infty} (q^{10}; q^{14})_{\infty} (q^{11}; q^{14})_{\infty} (q^{13}; q^{14})_{\infty} (q^{14}; q^{14})_{\infty}} \quad (214)$$

$$\sum_{n=0}^{\infty} \frac{q^{\frac{n^2+3n}{2}} (-q; q)_n}{(q; q)_{2n+1}} = \frac{1}{(q; q^{14})_{\infty} (q^2; q^{14})_{\infty} (q^3; q^{14})_{\infty} (q^5; q^{14})_{\infty}^2 (q^6; q^{14})_{\infty} (q^7; q^{14})_{\infty} (q^8; q^{14})_{\infty} (q^9; q^{14})_{\infty}^2 (q^{11}; q^{14})_{\infty} (q^{12}; q^{14})_{\infty} (q^{13}; q^{14})_{\infty} (q^{14}; q^{14})_{\infty}} \quad (215)$$

$$\sum_{n=0}^{\infty} \frac{q^{n^2} (-q^2; q^2)_n}{(q; q)_{2n+1}} = \frac{(q^2; q^4)_{\infty}^1}{(q; q^4)_{\infty}^2 (q^3; q^4)_{\infty}^2} \quad (216)$$

$$\sum_{n=0}^{\infty} \frac{q^{n^2+n} (-q^2; q^2)_n}{(q; q)_{2n+1}} = \frac{1}{(q; q^{12})_{\infty} (q^2; q^{12})_{\infty} (q^4; q^{12})_{\infty} (q^5; q^{12})_{\infty} (q^6; q^{12})_{\infty} (q^7; q^{12})_{\infty} (q^8; q^{12})_{\infty} (q^{10}; q^{12})_{\infty} (q^{11}; q^{12})_{\infty}} \quad (217)$$

$$\sum_{n=0}^{\infty} \frac{q^{n^2+n} (-q; q^2)_n}{(q; q)_{2n+1}} = \frac{1}{(q; q^4)_{\infty} (q^2; q^4)_{\infty} (q^3; q^4)_{\infty}} \quad (218)$$

$$\sum_{n=0}^{\infty} \frac{q^{\frac{3n^2+n}{2}} (-q; q)_n}{(q; q)_{2n+1}} = \frac{1}{(q; q^{10})_{\infty} (q^2; q^{10})_{\infty} (q^3; q^{10})_{\infty} (q^5; q^{10})_{\infty} (q^7; q^{10})_{\infty} (q^8; q^{10})_{\infty} (q^9; q^{10})_{\infty}} \quad (219)$$

$$\sum_{n=0}^{\infty} \frac{q^{n^2+2n} (-q; q^2)_n}{(q; q)_{2n+1}} = \frac{1}{(q; q^{12})_{\infty} (q^3; q^{12})_{\infty} (q^4; q^{12})_{\infty} (q^5; q^{12})_{\infty} (q^6; q^{12})_{\infty} (q^7; q^{12})_{\infty} (q^8; q^{12})_{\infty} (q^9; q^{12})_{\infty} (q^{11}; q^{12})_{\infty}} \quad (220)$$

$$\sum_{n=0}^{\infty} \frac{q^{\frac{3n^2+3n}{2}}(-q; q)_n}{(q; q)_{2n+1}} = \frac{1}{(q; q^{10})_{\infty}(q^3; q^{10})_{\infty}(q^4; q^{10})_{\infty}(q^5; q^{10})_{\infty}(q^6; q^{10})_{\infty}(q^7; q^{10})_{\infty}(q^9; q^{10})_{\infty}} \quad (221)$$

$$\sum_{n=0}^{\infty} \frac{q^{\frac{n^2+n}{2}}(-q^3; q^3)_n}{(q; q)_{2n+1}} = \frac{(q^2; q^{12})_{\infty}^1 (q^{10}; q^{12})_{\infty}^1}{(q; q^{12})_{\infty}^2 (q^3; q^{12})_{\infty}^2 (q^5; q^{12})_{\infty}^2 (q^7; q^{12})_{\infty}^2 (q^9; q^{12})_{\infty}^2 (q^{11}; q^{12})_{\infty}^2} \quad (222)$$

$$\sum_{n=0}^{\infty} \frac{q^{\frac{n^2+3n}{2}}(-q; q)_n^2}{(q; q)_{2n+1}} = \frac{1}{(q; q^{10})_{\infty}(q^2; q^{10})_{\infty}(q^3; q^{10})_{\infty}^2 (q^4; q^{10})_{\infty}(q^5; q^{10})_{\infty}^2 (q^6; q^{10})_{\infty}(q^7; q^{10})_{\infty}^2 (q^8; q^{10})_{\infty}(q^9; q^{10})_{\infty}} \quad (223)$$

$$\sum_{n=0}^{\infty} \frac{q^{n^2}(-q; q)_n^2}{(q; q)_{2n+1}} = \frac{1}{(q; q^6)_{\infty}^2 (q^2; q^6)_{\infty}(q^4; q^6)_{\infty}(q^5; q^6)_{\infty}^2} \quad (224)$$

$$\sum_{n=0}^{\infty} \frac{q^{n^2+n}(-q; q)_n^2}{(q; q)_{2n+1}} = \frac{1}{(q; q^6)_{\infty}(q^2; q^6)_{\infty}(q^3; q^6)_{\infty}^2 (q^4; q^6)_{\infty}(q^5; q^6)_{\infty}} \quad (225)$$

$$\sum_{n=0}^{\infty} \frac{q^{\frac{n^2+n}{2}}(-q; q)_n^2}{(q; q)_{2n+1}} = \frac{1}{(q; q^{10})_{\infty}^2 (q^2; q^{10})_{\infty}(q^3; q^{10})_{\infty}(q^4; q^{10})_{\infty}(q^5; q^{10})_{\infty}^2 (q^6; q^{10})_{\infty}(q^7; q^{10})_{\infty}(q^8; q^{10})_{\infty}(q^9; q^{10})_{\infty}^2} \quad (226)$$

$$\sum_{n=0}^{\infty} \frac{q^{\frac{n^2+n}{2}}(-q; q)_n^3}{(q; q)_{2n+1}} = \frac{1}{(q; q^4)_{\infty}^2 (q^2; q^4)_{\infty}^2 (q^3; q^4)_{\infty}^2} \quad (227)$$

$$\sum_{n=0}^{\infty} \frac{q^{2n^2+n}(-q^3; q^4)_n}{(q^2; q^2)_{2n+1}} = \frac{1}{(q^2; q^8)_{\infty}(q^3; q^8)_{\infty}(q^7; q^8)_{\infty}} \quad (228)$$

$$\sum_{n=0}^{\infty} \frac{q^{2n^2+n}(-q^3; q^4)_n}{(q^2; q^2)_{2n+1}} = \frac{1}{(q^2; q^8)_{\infty}(q^3; q^8)_{\infty}(q^7; q^8)_{\infty}} \quad (229)$$

$$\sum_{n=0}^{\infty} \frac{q^{n^2+2n}(-q; q^2)_{n+1}}{(q^2; q^2)_{2n+1}} = \frac{(q^{14}; q^{28})_{\infty}^1}{(q; q^{28})_{\infty}(q^3; q^{28})_{\infty}(q^7; q^{28})_{\infty}(q^8; q^{28})_{\infty}(q^{11}; q^{28})_{\infty}(q^{12}; q^{28})_{\infty}(q^{13}; q^{28})_{\infty}(q^{15}; q^{28})_{\infty}(q^{16}; q^{28})_{\infty}(q^{17}; q^{28})_{\infty}(q^{20}; q^{28})_{\infty}} \quad (230)$$

$$\sum_{n=0}^{\infty} \frac{q^{2n^2+2n}(-q; q^2)_{n+1}}{(q^2; q^2)_{2n+1}} = \frac{(q^{14}; q^{28})_{\infty}^1}{(q; q^{28})_{\infty}(q^4; q^{28})_{\infty}(q^7; q^{28})_{\infty}(q^{10}; q^{28})_{\infty}(q^{12}; q^{28})_{\infty}(q^{13}; q^{28})_{\infty}(q^{15}; q^{28})_{\infty}(q^{16}; q^{28})_{\infty}(q^{18}; q^{28})_{\infty}(q^{21}; q^{28})_{\infty}(q^{24}; q^{28})_{\infty}} \quad (231)$$

$$\sum_{n=0}^{\infty} \frac{q^{3n^2+2n}(-q; q^2)_{n+1}}{(q^2; q^2)_{2n+1}} = \frac{(q^{10}; q^{20})_{\infty}^1}{(q; q^{20})_{\infty}(q^5; q^{20})_{\infty}(q^8; q^{20})_{\infty}(q^9; q^{20})_{\infty}(q^{11}; q^{20})_{\infty}(q^{12}; q^{20})_{\infty}(q^{15}; q^{20})_{\infty}(q^{19}; q^{20})_{\infty}} \quad (232)$$

$$\sum_{n=0}^{\infty} \frac{q^{2n^2+n}(-q; q)_{2n+1}}{(q^2; q^2)_{2n+1}} = \frac{1}{(q; q^2)_{\infty}} \quad (233)$$

$$\sum_{n=0}^{\infty} \frac{q^{2n^2+2n}(-q; q)_{2n+1}}{(q^2; q^2)_{2n+1}} = \frac{1}{(q; q^{16})_{\infty}(q^4; q^{16})_{\infty}(q^6; q^{16})_{\infty}(q^7; q^{16})_{\infty}(q^9; q^{16})_{\infty}(q^{10}; q^{16})_{\infty}(q^{12}; q^{16})_{\infty}(q^{15}; q^{16})_{\infty}} \quad (234)$$

$$\sum_{n=0}^{\infty} \frac{q^{n^2+n}(-q; q)_{2n+1}}{(q^2; q^2)_{2n+1}} = \frac{1}{(q; q^{20})_{\infty}(q^2; q^{20})_{\infty}(q^5; q^{20})_{\infty}(q^6; q^{20})_{\infty}(q^8; q^{20})_{\infty}(q^9; q^{20})_{\infty}(q^{11}; q^{20})_{\infty}(q^{12}; q^{20})_{\infty}(q^{14}; q^{20})_{\infty}(q^{15}; q^{20})_{\infty}(q^{18}; q^{20})_{\infty}} \quad (235)$$

$$\sum_{n=0}^{\infty} \frac{q^{n^2+2n}(-q; q)_{2n+1}}{(q^2; q^2)_{2n+1}} = \frac{1}{(q; q^{20})_{\infty}(q^3; q^{20})_{\infty}(q^5; q^{20})_{\infty}(q^7; q^{20})_{\infty}(q^8; q^{20})_{\infty}(q^9; q^{20})_{\infty}(q^{11}; q^{20})_{\infty}(q^{12}; q^{20})_{\infty}(q^{13}; q^{20})_{\infty}(q^{15}; q^{20})_{\infty}(q^{17}; q^{20})_{\infty}} \quad (236)$$

$$\sum_{n=0}^{\infty} \frac{q^{2n^2+n}(-q; q)_{2n+1}}{(q^2; q^2)_{2n+1}} = \frac{1}{(q; q^2)_{\infty}} \quad (237)$$

$$\sum_{n=0}^{\infty} \frac{q^{3n^2+2n}(-q^4; q^6)_n}{(q^3; q^3)_{2n+1}} = \frac{(q^{10}; q^{12})_{\infty}^1}{(q^3; q^{12})_{\infty}(q^5; q^{12})_{\infty}(q^9; q^{12})_{\infty}(q^{11}; q^{12})_{\infty}} \quad (238)$$

$$\sum_{n=0}^{\infty} \frac{q^{3n^2+n}(-q^5; q^6)_n}{(q^3; q^3)_{2n+1}} = \frac{(q^8; q^{12})_{\infty}^1}{(q^3; q^{12})_{\infty}(q^4; q^{12})_{\infty}(q^9; q^{12})_{\infty}(q^{10}; q^{12})_{\infty}} \quad (239)$$

$$\sum_{n=0}^{\infty} \frac{q^{\frac{3n^2+3n}{2}}(-q; q)_{3n+1}}{(q^3; q^3)_{2n+1}} = \frac{(q^2; q^{12})_{\infty}^1 (q^{10}; q^{12})_{\infty}^1}{(q; q^{12})_{\infty}(q^3; q^{12})_{\infty}^2 (q^5; q^{12})_{\infty}(q^7; q^{12})_{\infty}(q^9; q^{12})_{\infty}^2 (q^{11}; q^{12})_{\infty}} \quad (240)$$

$$\sum_{n=0}^{\infty} \frac{q^{4n^2+4n}(-q; q^2)_{2n+1}}{(q^4; q^4)_{2n+1}} = \frac{(q^2; q^{24})_{\infty}^1 (q^{22}; q^{24})_{\infty}^1}{(q; q^{24})_{\infty} (q^4; q^{24})_{\infty} (q^8; q^{24})_{\infty} (q^{11}; q^{24})_{\infty} (q^{13}; q^{24})_{\infty} (q^{16}; q^{24})_{\infty} (q^{20}; q^{24})_{\infty} (q^{23}; q^{24})_{\infty}} \quad (241)$$

$$\sum_{n=0}^{\infty} \frac{q^{n^2+n}(-q; q)_{2n+1}}{(q^4; q^4)_n} = \frac{1}{(q; q^8)_{\infty} (q^5; q^8)_{\infty} (q^6; q^8)_{\infty}} \quad (242)$$

$$\sum_{n=0}^{\infty} \frac{q^{n^2+2n}(-q; q)_{2n+1}}{(q^2; q^2)_{2n+1}} = \frac{1}{(q; q^{20})_{\infty} (q^3; q^{20})_{\infty} (q^5; q^{20})_{\infty} (q^7; q^{20})_{\infty} (q^8; q^{20})_{\infty} (q^9; q^{20})_{\infty} (q^{11}; q^{20})_{\infty} (q^{12}; q^{20})_{\infty} (q^{13}; q^{20})_{\infty} (q^{15}; q^{20})_{\infty} (q^{17}; q^{20})_{\infty}} \quad (243)$$

$$\sum_{n=0}^{\infty} \frac{q^{2n^2+2n}(-q; q)_{2n+1}}{(q^2; q^2)_{2n+1}} = \frac{1}{(q; q^{16})_{\infty} (q^4; q^{16})_{\infty} (q^6; q^{16})_{\infty} (q^7; q^{16})_{\infty} (q^9; q^{16})_{\infty} (q^{10}; q^{16})_{\infty} (q^{12}; q^{16})_{\infty} (q^{15}; q^{16})_{\infty}} \quad (244)$$

$$\sum_{n=0}^{\infty} \frac{q^{n^2+2n}}{(q; q)_n (q; q)_{n+2}} = \frac{1}{(q; q)_{\infty}} \quad (245)$$