Table 1: The cases $k \equiv 0 \pmod 4$ in the proof of Theorem 3.1

Case	(n, n_0, k)	$f(m)$
1.1.1	$(0,0,0)$	$m^2+(-48k_0m_0-48m_0^2-6m_0+2)m+576k_0^2m_0^2+48k_0^2m_0+1152k_0m_0^3+192k_0m_0^2-50k_0m_0+576m_0^4+144m_0^3-47m_0^2-8m_0+1$
1.1.2	$(1,0,0)$	$m^2+(-48k_0m_0-12k_0-48m_0^2-30m_0-3)m+576k_0^2m_0^2+336k_0^2m_0+48k_0^2+1152k_0m_0^3+1056k_0m_0^2+274k_0m_0+22k_0+576m_0^4+720m_0^3+289m_0^2+41m_0+2$
1.1.3	$(2,0,0)$	$m^2+(-48k_0m_0-24k_0-48m_0^2-54m_0-13)m+576k_0^2m_0^2+624k_0^2m_0+168k_0^2+1152k_0m_0^3+1920k_0m_0^2+1006k_0m_0+167k_0+576m_0^4+1296m_0^3+1033m_0^2+341m_0+39$
1.1.4	$(3,0,0)$	$m^2+(-48k_0m_0-36k_0-48m_0^2-78m_0-30)m+576k_0^2m_0^2+912k_0^2m_0+360k_0^2+1152k_0m_0^3+2784k_0m_0^2+2194k_0m_0+567k_0+576m_0^4+1872m_0^3+2233m_0^2+1158m_0+220$
1.1.5	$(0,1,0)$	$m^2+(-48k_0m_0-48m_0^2-6m_0+2)m+576k_0^2m_0^2+48k_0^2m_0+1152k_0m_0^3+192k_0m_0^2-50k_0m_0+576m_0^4+144m_0^3-47m_0^2-6m_0+1$
1.1.6	$(1,1,0)$	$m^2+(-48k_0m_0-12k_0-48m_0^2-30m_0-2)m+576k_0^2m_0^2+336k_0^2m_0+48k_0^2+1152k_0m_0^3+1056k_0m_0^2+250k_0m_0+13k_0+576m_0^4+720m_0^3+265m_0^2+24m_0$
1.1.7	$(2,1,0)$	$m^2+(-48k_0m_0-24k_0-48m_0^2-54m_0-13)m+576k_0^2m_0^2+624k_0^2m_0+168k_0^2+1152k_0m_0^3+1920k_0m_0^2+1006k_0m_0+167k_0+576m_0^4+1296m_0^3+1033m_0^2+343m_0+40$
1.1.8	$(3,1,0)$	$m^2+(-48k_0m_0-36k_0-48m_0^2-78m_0-29)m+576k_0^2m_0^2+912k_0^2m_0+360k_0^2+1152k_0m_0^3+2784k_0m_0^2+2170k_0m_0+546k_0+576m_0^4+1872m_0^3+2209m_0^2+1117m_0+204$
1.1.9	$(0,2,0)$	$m^2+(-48k_0m_0-48m_0^2-6m_0+3)m+576k_0^2m_0^2+48k_0^2m_0+1152k_0m_0^3+192k_0m_0^2-74k_0m_0+576m_0^4+144m_0^3-71m_0^2-11m_0+2$
1.1.10	$(1,2,0)$	$m^2+(-48k_0m_0-12k_0-48m_0^2-30m_0-2)m+576k_0^2m_0^2+336k_0^2m_0+48k_0^2+1152k_0m_0^3+1056k_0m_0^2+250k_0m_0+16k_0+576m_0^4+720m_0^3+265m_0^2+26m_0$
1.1.11	$(2,2,0)$	$m^2+(-48k_0m_0-24k_0-48m_0^2-54m_0-12)m+576k_0^2m_0^2+624k_0^2m_0+168k_0^2+1152k_0m_0^3+1920k_0m_0^2+982k_0m_0+155k_0+576m_0^4+1296m_0^3+1009m_0^2+314m_0+33$
1.1.12	$(3,2,0)$	$m^2+(-48k_0m_0-36k_0-48m_0^2-78m_0-29)m+576k_0^2m_0^2+912k_0^2m_0+360k_0^2+1152k_0m_0^3+2784k_0m_0^2+2170k_0m_0+549k_0+576m_0^4+1872m_0^3+2209m_0^2+1119m_0+206$
1.1.13	$(0,3,0)$	$m^2+(-48k_0m_0-48m_0^2-6m_0+3)m+576k_0^2m_0^2+48k_0^2m_0+1152k_0m_0^3+192k_0m_0^2-74k_0m_0+576m_0^4+144m_0^3-71m_0^2-9m_0+2$
1.1.14	$(1,3,0)$	$m^2+(-48k_0m_0-12k_0-48m_0^2-30m_0-1)m+576k_0^2m_0^2+336k_0^2m_0+48k_0^2+1152k_0m_0^3+1056k_0m_0^2+226k_0m_0+7k_0+576m_0^4+720m_0^3+241m_0^2+9m_0-1$
1.1.15	$(2,3,0)$	$m^2+(-48k_0m_0-24k_0-48m_0^2-54m_0-12)m+576k_0^2m_0^2+624k_0^2m_0+168k_0^2+1152k_0m_0^3+1920k_0m_0^2+982k_0m_0+155k_0+576m_0^4+1296m_0^3+1009m_0^2+316m_0+34$
1.1.16	$(3,3,0)$	$m^2+(-48k_0m_0-36k_0-48m_0^2-78m_0-28)m+576k_0^2m_0^2+912k_0^2m_0+360k_0^2+1152k_0m_0^3+2784k_0m_0^2+2146k_0m_0+528k_0+576m_0^4+1872m_0^3+2185m_0^2+1078m_0+190$
2.1.1	$(0,0,0)$	$(4k_0+4m_0+1)m-48k_0^2m_0-4k_0^2-144k_0m_0^2-46k_0m_0+2k_0-96m_0^3-48m_0^2-3m_0+1$
2.1.2	$(1,0,0)$	$(4k_0+4m_0+1)m-48k_0^2m_0-16k_0^2-144k_0m_0^2-94k_0m_0-10k_0-96m_0^3-96m_0^2-27m_0-2$
2.1.3	$(2,0,0)$	$(4k_0+4m_0+3)m-48k_0^2m_0-28k_0^2-144k_0m_0^2-190k_0m_0-57k_0-96m_0^3-192m_0^2-123m_0-25$
2.1.4	$(3,0,0)$	$(4k_0+4m_0+3)m-48k_0^2m_0-40k_0^2-144k_0m_0^2-238k_0m_0-93k_0-96m_0^3-240m_0^2-195m_0-52$
2.1.5	$(0,1,0)$	$(4k_0+4m_0)m-48k_0^2m_0-4k_0^2-144k_0m_0^2-22k_0m_0+4k_0-96m_0^3-24m_0^2+4m_0$
2.1.6	$(1,1,0)$	$(4k_0+4m_0+2)m-48k_0^2m_0-16k_0^2-144k_0m_0^2-118k_0m_0-19k_0-96m_0^3-120m_0^2-44m_0-4$
2.1.7	$(2,1,0)$	$(4k_0+4m_0+2)m-48k_0^2m_0-28k_0^2-144k_0m_0^2-166k_0m_0-43k_0-96m_0^3-168m_0^2-92m_0-16$
2.1.8	$(3,1,0)$	$(4k_0+4m_0+4)m-48k_0^2m_0-40k_0^2-144k_0m_0^2-262k_0m_0-114k_0-96m_0^3-264m_0^2-236m_0-68$
2.1.9	$(0,2,0)$	$(4k_0+4m_0+1)m-48k_0^2m_0-4k_0^2-144k_0m_0^2-46k_0m_0+4k_0-96m_0^3-48m_0^2-m_0+1$
2.1.10	$(1,2,0)$	$(4k_0+4m_0+1)m-48k_0^2m_0-16k_0^2-144k_0m_0^2-94k_0m_0-8k_0-96m_0^3-96m_0^2-25m_0-2$
2.1.11	$(2,2,0)$	$(4k_0+4m_0+3)m-48k_0^2m_0-28k_0^2-144k_0m_0^2-190k_0m_0-55k_0-96m_0^3-192m_0^2-121m_0-23$
2.1.12	$(3,2,0)$	$(4k_0+4m_0+3)m-48k_0^2m_0-40k_0^2-144k_0m_0^2-238k_0m_0-91k_0-96m_0^3-240m_0^2-193m_0-50$
2.1.13	$(0,3,0)$	$(4k_0+4m_0)m-48k_0^2m_0-4k_0^2-144k_0m_0^2-22k_0m_0+6k_0-96m_0^3-24m_0^2+6m_0$
2.1.14	$(1,3,0)$	$(4k_0+4m_0+2)m-48k_0^2m_0-16k_0^2-144k_0m_0^2-118k_0m_0-17k_0-96m_0^3-120m_0^2-42m_0-3$
2.1.15	$(2,3,0)$	$(4k_0+4m_0+2)m-48k_0^2m_0-28k_0^2-144k_0m_0^2-166k_0m_0-41k_0-96m_0^3-168m_0^2-90m_0-15$
2.1.16	$(3,3,0)$	$(4k_0+4m_0+4)m-48k_0^2m_0-40k_0^2-144k_0m_0^2-262k_0m_0-112k_0-96m_0^3-264m_0^2-234m_0-66$
3.1.1	$(0,0,0)$	$-m^2+(48k_0m_0+10k_0+48m_0^2+18m_0)m-576k_0^2m_0^2-192k_0^2m_0-13k_0^2-1152k_0m_0^3-624k_0m_0^2-64k_0m_0+5k_0-576m_0^4-432m_0^3-73m_0^2+4m_0+1$
3.1.2	$(1,0,0)$	$-m^2+(48k_0m_0+22k_0+48m_0^2+42m_0+7)m-576k_0^2m_0^2-480k_0^2m_0-97k_0^2-1152k_0m_0^3-1488k_0m_0^2-580k_0m_0-64k_0-576m_0^4-1008m_0^3-601m_0^2-141m_0-11$
3.1.3	$(2,0,0)$	$-m^2+(48k_0m_0+34k_0+48m_0^2+66m_0+21)m-576k_0^2m_0^2-768k_0^2m_0-253k_0^2-1152k_0m_0^3-2352k_0m_0^2-1552k_0m_0-327k_0-576m_0^4-1584m_0^3-1585m_0^2-681m_0-106$
3.1.4	$(3,0,0)$	$-m^2+(48k_0m_0+46k_0+48m_0^2+90m_0+40)m-576k_0^2m_0^2-1056k_0^2m_0-481k_0^2-1152k_0m_0^3-3216k_0m_0^2-2932k_0m_0-870k_0-576m_0^4-2160m_0^3-2977m_0^2-1786m_0-394$
3.1.5	$(0,1,0)$	$-m^2+(48k_0m_0+10k_0+48m_0^2+18m_0-1)m-576k_0^2m_0^2-192k_0^2m_0-13k_0^2-1152k_0m_0^3-624k_0m_0^2-40k_0m_0+7k_0-576m_0^4-432m_0^3-49m_0^2+11m_0$
3.1.6	$(1,1,0)$	$-m^2+(48k_0m_0+22k_0+48m_0^2+42m_0+7)m-576k_0^2m_0^2-480k_0^2m_0-97k_0^2-1152k_0m_0^3-1488k_0m_0^2-580k_0m_0-64k_0-576m_0^4-1008m_0^3-601m_0^2-139m_0-10$
3.1.7	$(2,1,0)$	$-m^2+(48k_0m_0+34k_0+48m_0^2+66m_0+20)m-576k_0^2m_0^2-768k_0^2m_0-253k_0^2-1152k_0m_0^3-2352k_0m_0^2-1528k_0m_0-313k_0-576m_0^4-1584m_0^3-1561m_0^2-650m_0-97$
3.1.8	$(3,1,0)$	$-m^2+(48k_0m_0+46k_0+48m_0^2+90m_0+40)m-576k_0^2m_0^2-1056k_0^2m_0-481k_0^2-1152k_0m_0^3-3216k_0m_0^2-2932k_0m_0-870k_0-576m_0^4-2160m_0^3-2977m_0^2-1784m_0-392$
3.1.9	$(0,2,0)$	$-m^2+(48k_0m_0+10k_0+48m_0^2+18m_0-1)m-576k_0^2m_0^2-192k_0^2m_0-13k_0^2-1152k_0m_0^3-624k_0m_0^2-40k_0m_0+10k_0-576m_0^4-432m_0^3-49m_0^2+13m_0$
3.1.10	$(1,2,0)$	$-m^2+(48k_0m_0+22k_0+48m_0^2+42m_0+6)m-576k_0^2m_0^2-480k_0^2m_0-97k_0^2-1152k_0m_0^3-1488k_0m_0^2-556k_0m_0-53k_0-576m_0^4-1008m_0^3-577m_0^2-120m_0-8$
3.1.11	$(2,2,0)$	$-m^2+(48k_0m_0+34k_0+48m_0^2+66m_0+20)m-576k_0^2m_0^2-768k_0^2m_0-253k_0^2-1152k_0m_0^3-2352k_0m_0^2-1528k_0m_0-310k_0-576m_0^4-1584m_0^3-1561m_0^2-648m_0-95$
3.1.12	$(3,2,0)$	$-m^2+(48k_0m_0+46k_0+48m_0^2+90m_0+39)m-576k_0^2m_0^2-1056k_0^2m_0-481k_0^2-1152k_0m_0^3-3216k_0m_0^2-2908k_0m_0-847k_0-576m_0^4-2160m_0^3-2953m_0^2-1741m_0-374$
3.1.13	$(0,3,0)$	$-m^2+(48k_0m_0+10k_0+48m_0^2+18m_0-2)m-576k_0^2m_0^2-192k_0^2m_0-13k_0^2-1152k_0m_0^3-624k_0m_0^2-16k_0m_0+12k_0-576m_0^4-432m_0^3-25m_0^2+20m_0-1$
3.1.14	$(1,3,0)$	$-m^2+(48k_0m_0+22k_0+48m_0^2+42m_0+6)m-576k_0^2m_0^2-480k_0^2m_0-97k_0^2-1152k_0m_0^3-1488k_0m_0^2-556k_0m_0-53k_0-576m_0^4-1008m_0^3-577m_0^2-118m_0-7$
3.1.15	$(2,3,0)$	$-m^2+(48k_0m_0+34k_0+48m_0^2+66m_0+19)m-576k_0^2m_0^2-768k_0^2m_0-253k_0^2-1152k_0m_0^3-2352k_0m_0^2-1504k_0m_0-296k_0-576m_0^4-1584m_0^3-1537m_0^2-617m_0-87$
3.1.16	$(3,3,0)$	$-m^2+(48k_0m_0+46k_0+48m_0^2+90m_0+39)m-576k_0^2m_0^2-1056k_0^2m_0-481k_0^2-1152k_0m_0^3-3216k_0m_0^2-2908k_0m_0-847k_0-576m_0^4-2160m_0^3-2953m_0^2-1739m_0-372$
4.1.1	$(0,0,0)$	$(-4m_0-1)m+48k_0^2m_0+12k_0^2+144k_0m_0^2+70k_0m_0+10k_0+96m_0^3+72m_0^2+15m_0+1$

Continued on next page

Table 1 – continued from previous page

Case	(n, n_0, k)	$f(m)$
4.1.2	$(1,0,0)$	$(-4m_0-2)m+48k_0^2m_0+24k_0^2+144k_0m_0^2+142k_0m_0+35k_0+96m_0^3+144m_0^2+66m_0+9$
4.1.3	$(2,0,0)$	$(-4m_0-3)m+48k_0^2m_0+36k_0^2+144k_0m_0^2+214k_0m_0+81k_0+96m_0^3+216m_0^2+159m_0+38$
4.1.4	$(3,0,1)$	$(-4m_0-4)m+48k_0^2m_0+48k_0^2+144k_0m_0^2+286k_0m_0+142k_0+96m_0^3+288m_0^2+282m_0+90$
4.1.5	$(0,1,0)$	$(-4m_0-1)m+48k_0^2m_0+12k_0^2+144k_0m_0^2+70k_0m_0+7k_0+96m_0^3+72m_0^2+11m_0$
4.1.6	$(1,1,0)$	$(-4m_0-2)m+48k_0^2m_0+24k_0^2+144k_0m_0^2+142k_0m_0+35k_0+96m_0^3+144m_0^2+68m_0+10$
4.1.7	$(2,1,0)$	$(-4m_0-3)m+48k_0^2m_0+36k_0^2+144k_0m_0^2+214k_0m_0+78k_0+96m_0^3+216m_0^2+155m_0+35$
4.1.8	$(3,1,0)$	$(-4m_0-4)m+48k_0^2m_0+48k_0^2+144k_0m_0^2+286k_0m_0+142k_0+96m_0^3+288m_0^2+284m_0+92$
4.1.9	$(0,2,0)$	$(-4m_0-1)m+48k_0^2m_0+12k_0^2+144k_0m_0^2+70k_0m_0+10k_0+96m_0^3+72m_0^2+13m_0$
4.1.10	$(1,2,0)$	$(-4m_0-2)m+48k_0^2m_0+24k_0^2+144k_0m_0^2+142k_0m_0+35k_0+96m_0^3+144m_0^2+64m_0+8$
4.1.11	$(2,2,0)$	$(-4m_0-3)m+48k_0^2m_0+36k_0^2+144k_0m_0^2+214k_0m_0+81k_0+96m_0^3+216m_0^2+157m_0+37$
4.1.12	$(3,2,0)$	$(-4m_0-4)m+48k_0^2m_0+48k_0^2+144k_0m_0^2+286k_0m_0+142k_0+96m_0^3+288m_0^2+280m_0+88$
4.1.13	$(0,3,0)$	$(-4m_0-1)m+48k_0^2m_0+12k_0^2+144k_0m_0^2+70k_0m_0+7k_0+96m_0^3+72m_0^2+9m_0-1$
4.1.14	$(1,3,0)$	$(-4m_0-2)m+48k_0^2m_0+24k_0^2+144k_0m_0^2+142k_0m_0+35k_0+96m_0^3+144m_0^2+66m_0+9$
4.1.15	$(2,3,0)$	$(-4m_0-3)m+48k_0^2m_0+36k_0^2+144k_0m_0^2+214k_0m_0+78k_0+96m_0^3+216m_0^2+153m_0+34$
4.1.16	$(3,3,0)$	$(-4m_0-4)m+48k_0^2m_0+48k_0^2+144k_0m_0^2+286k_0m_0+142k_0+96m_0^3+288m_0^2+282m_0+90$

Table 2: The cases $k \equiv 1 \pmod 4$ in the proof of Theorem 3.1

Case	(n, n_0, k)	$f(m)$
1.2.1	$(0,0,1)$	$m^2 + (-48k_0m_0 - 48m_0^2 - 18m_0 + 2)m + 576k_0^2m_0^2 + 48k_0^2m_0 + 1152k_0m_0^3 + 480k_0m_0^2 - 14k_0m_0 + 576m_0^4 + 432m_0^3 + 49m_0^2 - 13m_0 + 1$
1.2.2	$(1,0,1)$	$m^2 + (-48k_0m_0 - 12k_0 - 48m_0^2 - 42m_0 - 5)m + 576k_0^2m_0^2 + 336k_0^2m_0 + 48k_0^2 + 1152k_0m_0^3 + 1344k_0m_0^2 + 430k_0m_0 + 42k_0 + 576m_0^4 + 1008m_0^3 + 577m_0^2 + 120m_0 + 9$
1.2.3	$(2,0,1)$	$m^2 + (-48k_0m_0 - 24k_0 - 48m_0^2 - 66m_0 - 19)m + 576k_0^2m_0^2 + 624k_0^2m_0 + 168k_0^2 + 1152k_0m_0^3 + 2208k_0m_0^2 + 1330k_0m_0 + 257k_0 + 576m_0^4 + 1584m_0^3 + 1561m_0^2 + 648m_0 + 96$
1.2.4	$(3,0,1)$	$m^2 + (-48k_0m_0 - 36k_0 - 48m_0^2 - 90m_0 - 38)m + 576k_0^2m_0^2 + 912k_0^2m_0 + 360k_0^2 + 1152k_0m_0^3 + 3072k_0m_0^2 + 2638k_0m_0 + 737k_0 + 576m_0^4 + 2160m_0^3 + 2953m_0^2 + 1741m_0 + 375$
1.2.5	$(0,1,1)$	$m^2 + (-48k_0m_0 - 48m_0^2 - 18m_0 + 2)m + 576k_0^2m_0^2 + 48k_0^2m_0 + 1152k_0m_0^3 + 480k_0m_0^2 - 38k_0m_0 + 576m_0^4 + 432m_0^3 + 25m_0^2 - 20m_0 + 1$
1.2.6	$(1,1,1)$	$m^2 + (-48k_0m_0 - 12k_0 - 48m_0^2 - 42m_0 - 6)m + 576k_0^2m_0^2 + 336k_0^2m_0 + 48k_0^2 + 1152k_0m_0^3 + 1344k_0m_0^2 + 430k_0m_0 + 41k_0 + 576m_0^4 + 1008m_0^3 + 577m_0^2 + 118m_0 + 7$
1.2.7	$(2,1,1)$	$m^2 + (-48k_0m_0 - 24k_0 - 48m_0^2 - 66m_0 - 19)m + 576k_0^2m_0^2 + 624k_0^2m_0 + 168k_0^2 + 1152k_0m_0^3 + 2208k_0m_0^2 + 1306k_0m_0 + 245k_0 + 576m_0^4 + 1584m_0^3 + 1537m_0^2 + 617m_0 + 87$
1.2.8	$(3,1,1)$	$m^2 + (-48k_0m_0 - 36k_0 - 48m_0^2 - 90m_0 - 39)m + 576k_0^2m_0^2 + 912k_0^2m_0 + 360k_0^2 + 1152k_0m_0^3 + 3072k_0m_0^2 + 2638k_0m_0 + 736k_0 + 576m_0^4 + 2160m_0^3 + 2953m_0^2 + 1739m_0 + 372$
1.2.9	$(0,2,1)$	$m^2 + (-48k_0m_0 - 48m_0^2 - 18m_0 + 3)m + 576k_0^2m_0^2 + 48k_0^2m_0 + 1152k_0m_0^3 + 480k_0m_0^2 - 38k_0m_0 + 576m_0^4 + 432m_0^3 + 25m_0^2 - 22m_0 + 2$
1.2.10	$(1,2,1)$	$m^2 + (-48k_0m_0 - 12k_0 - 48m_0^2 - 42m_0 - 4)m + 576k_0^2m_0^2 + 336k_0^2m_0 + 48k_0^2 + 1152k_0m_0^3 + 1344k_0m_0^2 + 406k_0m_0 + 36k_0 + 576m_0^4 + 1008m_0^3 + 553m_0^2 + 99m_0 + 7$
1.2.11	$(2,2,1)$	$m^2 + (-48k_0m_0 - 24k_0 - 48m_0^2 - 66m_0 - 18)m + 576k_0^2m_0^2 + 624k_0^2m_0 + 168k_0^2 + 1152k_0m_0^3 + 2208k_0m_0^2 + 1306k_0m_0 + 245k_0 + 576m_0^4 + 1584m_0^3 + 1537m_0^2 + 615m_0 + 88$
1.2.12	$(3,2,1)$	$m^2 + (-48k_0m_0 - 36k_0 - 48m_0^2 - 90m_0 - 37)m + 576k_0^2m_0^2 + 912k_0^2m_0 + 360k_0^2 + 1152k_0m_0^3 + 3072k_0m_0^2 + 2614k_0m_0 + 719k_0 + 576m_0^4 + 2160m_0^3 + 2929m_0^2 + 1696m_0 + 357$
1.2.13	$(0,3,1)$	$m^2 + (-48k_0m_0 - 48m_0^2 - 18m_0 + 3)m + 576k_0^2m_0^2 + 48k_0^2m_0 + 1152k_0m_0^3 + 480k_0m_0^2 - 62k_0m_0 + 576m_0^4 + 432m_0^3 + m_0^2 - 29m_0 + 2$
1.2.14	$(1,3,1)$	$m^2 + (-48k_0m_0 - 12k_0 - 48m_0^2 - 42m_0 - 5)m + 576k_0^2m_0^2 + 336k_0^2m_0 + 48k_0^2 + 1152k_0m_0^3 + 1344k_0m_0^2 + 406k_0m_0 + 35k_0 + 576m_0^4 + 1008m_0^3 + 553m_0^2 + 97m_0 + 4$
1.2.15	$(2,3,1)$	$m^2 + (-48k_0m_0 - 24k_0 - 48m_0^2 - 66m_0 - 18)m + 576k_0^2m_0^2 + 624k_0^2m_0 + 168k_0^2 + 1152k_0m_0^3 + 2208k_0m_0^2 + 1282k_0m_0 + 233k_0 + 576m_0^4 + 1584m_0^3 + 1513m_0^2 + 584m_0 + 78$
1.2.16	$(3,3,1)$	$m^2 + (-48k_0m_0 - 36k_0 - 48m_0^2 - 90m_0 - 38)m + 576k_0^2m_0^2 + 912k_0^2m_0 + 360k_0^2 + 1152k_0m_0^3 + 3072k_0m_0^2 + 2614k_0m_0 + 718k_0 + 576m_0^4 + 2160m_0^3 + 2929m_0^2 + 1694m_0 + 353$
2.2.1	$(0,0,1)$	$(4k_0 + 4m_0 + 2)m - 48k_0^2m_0 - 4k_0^2 - 144k_0m_0^2 - 58k_0m_0 - 96m_0^3 - 72m_0^2 - 13m_0 + 1$
2.2.2	$(1,0,1)$	$(4k_0 + 4m_0 + 3)m - 48k_0^2m_0 - 16k_0^2 - 144k_0m_0^2 - 130k_0m_0 - 22k_0 - 96m_0^3 - 144m_0^2 - 64m_0 - 7$
2.2.3	$(2,0,1)$	$(4k_0 + 4m_0 + 4)m - 48k_0^2m_0 - 28k_0^2 - 144k_0m_0^2 - 202k_0m_0 - 65k_0 - 96m_0^3 - 216m_0^2 - 157m_0 - 36$
2.2.4	$(3,0,1)$	$(4k_0 + 4m_0 + 5)m - 48k_0^2m_0 - 40k_0^2 - 144k_0m_0^2 - 274k_0m_0 - 123k_0 - 96m_0^3 - 288m_0^2 - 280m_0 - 87$
2.2.5	$(0,1,1)$	$(4k_0 + 4m_0 + 1)m - 48k_0^2m_0 - 4k_0^2 - 144k_0m_0^2 - 58k_0m_0 + 2k_0 - 96m_0^3 - 72m_0^2 - 9m_0 + 1$
2.2.6	$(1,1,1)$	$(4k_0 + 4m_0 + 2)m - 48k_0^2m_0 - 16k_0^2 - 144k_0m_0^2 - 130k_0m_0 - 23k_0 - 96m_0^3 - 144m_0^2 - 66m_0 - 9$
2.2.7	$(2,1,1)$	$(4k_0 + 4m_0 + 3)m - 48k_0^2m_0 - 28k_0^2 - 144k_0m_0^2 - 202k_0m_0 - 63k_0 - 96m_0^3 - 216m_0^2 - 153m_0 - 34$
2.2.8	$(3,1,1)$	$(4k_0 + 4m_0 + 4)m - 48k_0^2m_0 - 40k_0^2 - 144k_0m_0^2 - 274k_0m_0 - 124k_0 - 96m_0^3 - 288m_0^2 - 282m_0 - 90$
2.2.9	$(0,2,1)$	$(4k_0 + 4m_0 + 2)m - 48k_0^2m_0 - 4k_0^2 - 144k_0m_0^2 - 58k_0m_0 + 2k_0 - 96m_0^3 - 72m_0^2 - 11m_0 + 2$
2.2.10	$(1,2,1)$	$(4k_0 + 4m_0 + 3)m - 48k_0^2m_0 - 16k_0^2 - 144k_0m_0^2 - 130k_0m_0 - 20k_0 - 96m_0^3 - 144m_0^2 - 62m_0 - 5$
2.2.11	$(2,2,1)$	$(4k_0 + 4m_0 + 4)m - 48k_0^2m_0 - 28k_0^2 - 144k_0m_0^2 - 202k_0m_0 - 63k_0 - 96m_0^3 - 216m_0^2 - 155m_0 - 33$
2.2.12	$(3,2,1)$	$(4k_0 + 4m_0 + 5)m - 48k_0^2m_0 - 40k_0^2 - 144k_0m_0^2 - 274k_0m_0 - 121k_0 - 96m_0^3 - 288m_0^2 - 278m_0 - 84$
2.2.13	$(0,3,1)$	$(4k_0 + 4m_0 + 1)m - 48k_0^2m_0 - 4k_0^2 - 144k_0m_0^2 - 58k_0m_0 + 4k_0 - 96m_0^3 - 72m_0^2 - 7m_0 + 1$
2.2.14	$(1,3,1)$	$(4k_0 + 4m_0 + 2)m - 48k_0^2m_0 - 16k_0^2 - 144k_0m_0^2 - 130k_0m_0 - 21k_0 - 96m_0^3 - 144m_0^2 - 64m_0 - 8$
2.2.15	$(2,3,1)$	$(4k_0 + 4m_0 + 3)m - 48k_0^2m_0 - 28k_0^2 - 144k_0m_0^2 - 202k_0m_0 - 61k_0 - 96m_0^3 - 216m_0^2 - 151m_0 - 32$
2.2.16	$(3,3,1)$	$(4k_0 + 4m_0 + 4)m - 48k_0^2m_0 - 40k_0^2 - 144k_0m_0^2 - 274k_0m_0 - 122k_0 - 96m_0^3 - 288m_0^2 - 280m_0 - 88$
3.2.1	$(0,0,1)$	$-m^2 + (48k_0m_0 + 10k_0 + 48m_0^2 + 30m_0 + 3)m - 576k_0^2m_0^2 - 192k_0^2m_0 - 13k_0^2 - 1152k_0m_0^3 - 912k_0m_0^2 - 160k_0m_0 - 3k_0 - 576m_0^4 - 720m_0^3 - 265m_0^2 - 26m_0 + 1$
3.2.2	$(1,0,1)$	$-m^2 + (48k_0m_0 + 22k_0 + 48m_0^2 + 54m_0 + 13)m - 576k_0^2m_0^2 - 480k_0^2m_0 - 97k_0^2 - 1152k_0m_0^3 - 1776k_0m_0^2 - 820k_0m_0 - 112k_0 - 576m_0^4 - 1296m_0^3 - 1009m_0^2 - 314m_0 - 32$
3.2.3	$(2,0,1)$	$-m^2 + (48k_0m_0 + 34k_0 + 48m_0^2 + 78m_0 + 30)m - 576k_0^2m_0^2 - 768k_0^2m_0 - 253k_0^2 - 1152k_0m_0^3 - 2640k_0m_0^2 - 1936k_0m_0 - 455k_0 - 576m_0^4 - 1872m_0^3 - 2209m_0^2 - 1119m_0 - 205$
3.2.4	$(3,0,1)$	$-m^2 + (48k_0m_0 + 46k_0 + 48m_0^2 + 102m_0 + 52)m - 576k_0^2m_0^2 - 1056k_0^2m_0 - 481k_0^2 - 1152k_0m_0^3 - 3504k_0m_0^2 - 3460k_0m_0 - 1110k_0 - 576m_0^4 - 2448m_0^3 - 3817m_0^2 - 2583m_0 - 639$
3.2.5	$(0,1,1)$	$-m^2 + (48k_0m_0 + 10k_0 + 48m_0^2 + 30m_0 + 1)m - 576k_0^2m_0^2 - 192k_0^2m_0 - 13k_0^2 - 1152k_0m_0^3 - 912k_0m_0^2 - 136k_0m_0 + 2k_0 - 576m_0^4 - 720m_0^3 - 241m_0^2 - 9m_0 + 1$
3.2.6	$(1,1,1)$	$-m^2 + (48k_0m_0 + 22k_0 + 48m_0^2 + 54m_0 + 12)m - 576k_0^2m_0^2 - 480k_0^2m_0 - 97k_0^2 - 1152k_0m_0^3 - 1776k_0m_0^2 - 820k_0m_0 - 113k_0 - 576m_0^4 - 1296m_0^3 - 1009m_0^2 - 316m_0 - 34$
3.2.7	$(2,1,1)$	$-m^2 + (48k_0m_0 + 34k_0 + 48m_0^2 + 78m_0 + 28)m - 576k_0^2m_0^2 - 768k_0^2m_0 - 253k_0^2 - 1152k_0m_0^3 - 2640k_0m_0^2 - 1912k_0m_0 - 438k_0 - 576m_0^4 - 1872m_0^3 - 2185m_0^2 - 1078m_0 - 190$
3.2.8	$(3,1,1)$	$-m^2 + (48k_0m_0 + 46k_0 + 48m_0^2 + 102m_0 + 51)m - 576k_0^2m_0^2 - 1056k_0^2m_0 - 481k_0^2 - 1152k_0m_0^3 - 3504k_0m_0^2 - 3460k_0m_0 - 1111k_0 - 576m_0^4 - 2448m_0^3 - 3817m_0^2 - 2585m_0 - 642$
3.2.9	$(0,2,1)$	$-m^2 + (48k_0m_0 + 10k_0 + 48m_0^2 + 30m_0 + 2)m - 576k_0^2m_0^2 - 192k_0^2m_0 - 13k_0^2 - 1152k_0m_0^3 - 912k_0m_0^2 - 136k_0m_0 + 2k_0 - 576m_0^4 - 720m_0^3 - 241m_0^2 - 11m_0 + 2$
3.2.10	$(1,2,1)$	$-m^2 + (48k_0m_0 + 22k_0 + 48m_0^2 + 54m_0 + 12)m - 576k_0^2m_0^2 - 480k_0^2m_0 - 97k_0^2 - 1152k_0m_0^3 - 1776k_0m_0^2 - 796k_0m_0 - 101k_0 - 576m_0^4 - 1296m_0^3 - 985m_0^2 - 287m_0 - 25$
3.2.11	$(2,2,1)$	$-m^2 + (48k_0m_0 + 34k_0 + 48m_0^2 + 78m_0 + 29)m - 576k_0^2m_0^2 - 768k_0^2m_0 - 253k_0^2 - 1152k_0m_0^3 - 2640k_0m_0^2 - 1912k_0m_0 - 438k_0 - 576m_0^4 - 1872m_0^3 - 2185m_0^2 - 1080m_0 - 189$
3.2.12	$(3,2,1)$	$-m^2 + (48k_0m_0 + 46k_0 + 48m_0^2 + 102m_0 + 51)m - 576k_0^2m_0^2 - 1056k_0^2m_0 - 481k_0^2 - 1152k_0m_0^3 - 3504k_0m_0^2 - 3436k_0m_0 - 1087k_0 - 576m_0^4 - 2448m_0^3 - 3793m_0^2 - 2532m_0 - 613$
3.2.13	$(0,3,1)$	$-m^2 + (48k_0m_0 + 10k_0 + 48m_0^2 + 30m_0)m - 576k_0^2m_0^2 - 192k_0^2m_0 - 13k_0^2 - 1152k_0m_0^3 - 912k_0m_0^2 - 112k_0m_0 + 7k_0 - 576m_0^4 - 720m_0^3 - 217m_0^2 + 6m_0 + 1$
3.2.14	$(1,3,1)$	$-m^2 + (48k_0m_0 + 22k_0 + 48m_0^2 + 54m_0 + 11)m - 576k_0^2m_0^2 - 480k_0^2m_0 - 97k_0^2 - 1152k_0m_0^3 - 1776k_0m_0^2 - 796k_0m_0 - 102k_0 - 576m_0^4 - 1296m_0^3 - 985m_0^2 - 289m_0 - 28$
3.2.15	$(2,3,1)$	$-m^2 + (48k_0m_0 + 34k_0 + 48m_0^2 + 78m_0 + 27)m - 576k_0^2m_0^2 - 768k_0^2m_0 - 253k_0^2 - 1152k_0m_0^3 - 2640k_0m_0^2 - 1888k_0m_0 - 421k_0 - 576m_0^4 - 1872m_0^3 - 2161m_0^2 - 1039m_0 - 176$
3.2.16	$(3,3,1)$	$-m^2 + (48k_0m_0 + 46k_0 + 48m_0^2 + 102m_0 + 50)m - 576k_0^2m_0^2 - 1056k_0^2m_0 - 481k_0^2 - 1152k_0m_0^3 - 3504k_0m_0^2 - 3436k_0m_0 - 1088k_0 - 576m_0^4 - 2448m_0^3 - 3793m_0^2 - 2534m_0 - 617$
4.2.1	$(0,0,1)$	$-4m_0m + 48k_0^2m_0 + 12k_0^2 + 144k_0m_0^2 + 82k_0m_0 + 12k_0 + 96m_0^3 + 96m_0^2 + 25m_0 + 3$

Continued on next page

Table 2 – continued from previous page

Case	(n, n_0, k)	$f(m)$
4.2.2	$(1,0,1)$	$(-4m_0-2)m48k_0^2m_0+24k_0^2+144k_0m_0^2+178k_0m_0+53k_0+96m_0^3+192m_0^2++121m_0+24$
4.2.3	$(2,0,1)$	$(-4m_0-2)m+48k_0^2m_0+36k_0^2+144k_0m_0^2+226k_0m_0+89k_0+96m_0^3+240m_0^2+193m_0+51$
4.2.4	$(3,0,1)$	$(-4m_0-4)m+48k_0^2m_0+48k_0^2+144k_0m_0^2+322k_0m_0+178k_0+96m_0^3+336m_0^2+385m_0+145$
4.2.5	$(0,1,1)$	$(-4m_0-2)m+48k_0^2m_0+12k_0^2+144k_0m_0^2+106k_0m_0+17k_0+96m_0^3+120m_0^2+42m_0+3$
4.2.6	$(1,1,1)$	$(-4m_0-2)m+48k_0^2m_0+24k_0^2+144k_0m_0^2+154k_0m_0+41k_0+96m_0^3+168m_0^2+90m_0+15$
4.2.7	$(2,1,1)$	$(-4m_0-4)m+48k_0^2m_0+36k_0^2+144k_0m_0^2+250k_0m_0+106k_0+96m_0^3+264m_0^2+234m_0+66$
4.2.8	$(3,1,1)$	$(-4m_0-4)m+48k_0^2m_0+48k_0^2+144k_0m_0^2+298k_0m_0+154k_0+96m_0^3+312m_0^2+330m_0+114$
4.2.9	$(0,2,1)$	$-4m_0m+48k_0^2m_0+12k_0^2+144k_0m_0^2+82k_0m_0+12k_0+96m_0^3+96m_0^2+23m_0+3$
4.2.10	$(1,2,1)$	$(-4m_0-2)m+48k_0^2m_0+24k_0^2+144k_0m_0^2+178k_0m_0+53k_0+96m_0^3+192m_0^2+119m_0+24$
4.2.11	$(2,2,1)$	$(-4m_0-2)m+48k_0^2m_0+36k_0^2+144k_0m_0^2+226k_0m_0+89k_0+96m_0^3+240m_0^2+191m_0+51$
4.2.12	$(3,2,1)$	$(-4m_0-4)m+48k_0^2m_0+48k_0^2+144k_0m_0^2+322k_0m_0+178k_0+96m_0^3+336m_0^2+383m_0+143$
4.2.13	$(0,3,1)$	$(-4m_0-2)m+48k_0^2m_0+12k_0^2+144k_0m_0^2+106k_0m_0+17k_0+96m_0^3+120m_0^2+40m_0+2$
4.2.14	$(1,3,1)$	$(-4m_0-2)m+48k_0^2m_0+24k_0^2+144k_0m_0^2+154k_0m_0+41k_0+96m_0^3+168m_0^2+88m_0+14$
4.2.15	$(2,3,1)$	$(-4m_0-4)m+48k_0^2m_0+36k_0^2+144k_0m_0^2+250k_0m_0+106k_0+96m_0^3+264m_0^2+232m_0+64$
4.2.16	$(3,3,1)$	$(-4m_0-4)m+48k_0^2m_0+48k_0^2+144k_0m_0^2+298k_0m_0+154k_0+96m_0^3+312m_0^2+328m_0+112$

Table 3: The cases $k \equiv 2 \pmod 4$ in the proof of Theorem 3.1

Case	(n, n_0, k)	$f(m)$
1.3.1	$(0,0,2)$	$m^2+(-48k_0m_0-48m_0^2-30m_0+2)m+576k_0^2m_0^2+48k_0^2m_0+1152k_0m_0^3+768k_0m_0^2-2k_0m_0+576m_0^4+720m_0^3+193m_0^2-21m_0+1$
1.3.2	$(1,0,2)$	$m^2+(-48k_0m_0-12k_0-48m_0^2-54m_0-9)m+576k_0^2m_0^2+336k_0^2m_0+48k_0^2+1152k_0m_0^3+1632k_0m_0^2+610k_0m_0+70k_0+576m_0^4+1296m_0^3+961m_0^2+262m_0+25$
1.3.3	$(2,0,2)$	$m^2+(-48k_0m_0-24k_0-48m_0^2-78m_0-25)m+576k_0^2m_0^2+624k_0^2m_0+168k_0^2+1152k_0m_0^3+2496k_0m_0^2+1630k_0m_0+335k_0+576m_0^4+1872m_0^3+2137m_0^2+1000m_0+165$
1.3.4	$(3,0,2)$	$m^2+(-48k_0m_0-36k_0-48m_0^2-102m_0-48)m+576k_0^2m_0^2+912k_0^2m_0+360k_0^2+1152k_0m_0^3+3360k_0m_0^2+3106k_0m_0+927k_0+576m_0^4+2448m_0^3+3769m_0^2+2483m_0+594$
1.3.5	$(0,1,2)$	$m^2+(-48k_0m_0-48m_0^2-30m_0+2)m+576k_0^2m_0^2+48k_0^2m_0+1152k_0m_0^3+768k_0m_0^2-2k_0m_0+576m_0^4+720m_0^3+193m_0^2-19m_0+1$
1.3.6	$(1,1,2)$	$m^2+(-48k_0m_0-12k_0-48m_0^2-54m_0-8)m+576k_0^2m_0^2+336k_0^2m_0+48k_0^2+1152k_0m_0^3+1632k_0m_0^2+586k_0m_0+61k_0+576m_0^4+1296m_0^3+937m_0^2+233m_0+18$
1.3.7	$(2,1,2)$	$m^2+(-48k_0m_0-24k_0-48m_0^2-78m_0-25)m+576k_0^2m_0^2+624k_0^2m_0+168k_0^2+1152k_0m_0^3+2496k_0m_0^2+1630k_0m_0+335k_0+576m_0^4+1872m_0^3+2137m_0^2+1002m_0+165$
1.3.8	$(3,1,2)$	$m^2+(-48k_0m_0-36k_0-48m_0^2-102m_0-47)m+576k_0^2m_0^2+912k_0^2m_0+360k_0^2+1152k_0m_0^3+3360k_0m_0^2+3082k_0m_0+906k_0+576m_0^4+2448m_0^3+3745m_0^2+2430m_0+567$
1.3.9	$(0,2,2)$	$m^2+(-48k_0m_0-48m_0^2-30m_0+3)m+576k_0^2m_0^2+48k_0^2m_0+1152k_0m_0^3+768k_0m_0^2-26k_0m_0+576m_0^4+720m_0^3+169m_0^2-36m_0+2$
1.3.10	$(1,2,2)$	$m^2+(-48k_0m_0-12k_0-48m_0^2-54m_0-8)m+576k_0^2m_0^2+336k_0^2m_0+48k_0^2+1152k_0m_0^3+1632k_0m_0^2+586k_0m_0+64k_0+576m_0^4+1296m_0^3+937m_0^2+235m_0+20$
1.3.11	$(2,2,2)$	$m^2+(-48k_0m_0-24k_0-48m_0^2-78m_0-24)m+576k_0^2m_0^2+624k_0^2m_0+168k_0^2+1152k_0m_0^3+2496k_0m_0^2+1606k_0m_0+323k_0+576m_0^4+1872m_0^3+2113m_0^2+961m_0+152$
1.3.12	$(3,2,2)$	$m^2+(-48k_0m_0-36k_0-48m_0^2-102m_0-47)m+576k_0^2m_0^2+912k_0^2m_0+360k_0^2+1152k_0m_0^3+3360k_0m_0^2+3082k_0m_0+909k_0+576m_0^4+2448m_0^3+3745m_0^2+2432m_0+570$
1.3.13	$(0,3,2)$	$m^2+(-48k_0m_0-48m_0^2-30m_0+3)m+576k_0^2m_0^2+48k_0^2m_0+1152k_0m_0^3+768k_0m_0^2-26k_0m_0+576m_0^4+720m_0^3+169m_0^2-34m_0+2$
1.3.14	$(1,3,2)$	$m^2+(-48k_0m_0-12k_0-48m_0^2-54m_0-7)m+576k_0^2m_0^2+336k_0^2m_0+48k_0^2+1152k_0m_0^3+1632k_0m_0^2+562k_0m_0+55k_0+576m_0^4+1296m_0^3+913m_0^2+206m_0+15$
1.3.15	$(2,3,2)$	$m^2+(-48k_0m_0-24k_0-48m_0^2-78m_0-24)m+576k_0^2m_0^2+624k_0^2m_0+168k_0^2+1152k_0m_0^3+2496k_0m_0^2+1606k_0m_0+323k_0+576m_0^4+1872m_0^3+2113m_0^2+963m_0+154$
1.3.16	$(3,3,2)$	$m^2+(-48k_0m_0-36k_0-48m_0^2-102m_0-46)m+576k_0^2m_0^2+912k_0^2m_0+360k_0^2+1152k_0m_0^3+3360k_0m_0^2+3058k_0m_0+888k_0+576m_0^4+2448m_0^3+3721m_0^2+2379m_0+544$
2.3.1	$(0,0,2)$	$(4k_0+4m_0+3)m-48k_0^2m_0-4k_0^2-144k_0m_0^2-94k_0m_0-2k_0-96m_0^3-120m_0^2-38m_0+1$
2.3.2	$(1,0,2)$	$(4k_0+4m_0+3)m-48k_0^2m_0-16k_0^2-144k_0m_0^2-142k_0m_0-26k_0-96m_0^3-168m_0^2-86m_0-11$
2.3.3	$(2,0,2)$	$(4k_0+4m_0+5)m-48k_0^2m_0-28k_0^2-144k_0m_0^2-238k_0m_0-85k_0-96m_0^3-264m_0^2-230m_0-60$
2.3.4	$(3,0,2)$	$(4k_0+4m_0+5)m-48k_0^2m_0-40k_0^2-144k_0m_0^2-286k_0m_0-133k_0-96m_0^3-312m_0^2-326m_0-108$
2.3.5	$(0,1,2)$	$(4k_0+4m_0+2)m-48k_0^2m_0-4k_0^2-144k_0m_0^2-70k_0m_0-96m_0^3-96m_0^2-19m_0+1$
2.3.6	$(1,1,2)$	$(4k_0+4m_0+4)m-48k_0^2m_0-16k_0^2-144k_0m_0^2-166k_0m_0-35k_0-96m_0^3-192m_0^2-115m_0-18$
2.3.7	$(2,1,2)$	$(4k_0+4m_0+4)m-48k_0^2m_0-28k_0^2-144k_0m_0^2-214k_0m_0-71k_0-96m_0^3-240m_0^2-187m_0-45$
2.3.8	$(3,1,2)$	$(4k_0+4m_0+6)m-48k_0^2m_0-40k_0^2-144k_0m_0^2-310k_0m_0-154k_0-96m_0^3-336m_0^2-379m_0-135$
2.3.9	$(0,2,2)$	$(4k_0+4m_0+3)m-48k_0^2m_0-4k_0^2-144k_0m_0^2-94k_0m_0-96m_0^3-120m_0^2-36m_0+2$
2.3.10	$(1,2,2)$	$(4k_0+4m_0+3)m-48k_0^2m_0-16k_0^2-144k_0m_0^2-142k_0m_0-24k_0-96m_0^3-168m_0^2-84m_0-10$
2.3.11	$(2,2,2)$	$(4k_0+4m_0+5)m-48k_0^2m_0-28k_0^2-144k_0m_0^2-238k_0m_0-83k_0-96m_0^3-264m_0^2-228m_0-58$
2.3.12	$(3,2,2)$	$(4k_0+4m_0+5)m-48k_0^2m_0-40k_0^2-144k_0m_0^2-286k_0m_0-131k_0-96m_0^3-312m_0^2-324m_0-106$
2.3.13	$(0,3,2)$	$(4k_0+4m_0+2)m-48k_0^2m_0-4k_0^2-144k_0m_0^2-70k_0m_0+2k_0-96m_0^3-96m_0^2-17m_0+2$
2.3.14	$(1,3,2)$	$(4k_0+4m_0+4)m-48k_0^2m_0-16k_0^2-144k_0m_0^2-166k_0m_0-33k_0-96m_0^3-192m_0^2-113m_0-15$
2.3.15	$(2,3,2)$	$(4k_0+4m_0+4)m-48k_0^2m_0-28k_0^2-144k_0m_0^2-214k_0m_0-69k_0-96m_0^3-240m_0^2-185m_0-42$
2.3.16	$(3,3,2)$	$(4k_0+4m_0+6)m-48k_0^2m_0-40k_0^2-144k_0m_0^2-310k_0m_0-152k_0-96m_0^3-336m_0^2-377m_0-132$
3.3.1	$(0,0,2)$	$-m^2+(48k_0m_0+10k_0+48m_0^2+42m_0+5)m-576k_0^2m_0^2-192k_0^2m_0-13k_0^2-1152k_0m_0^3-1200k_0m_0^2-256k_0m_0-8k_0-576m_0^4-1008m_0^3-529m_0^2-76m_0$
3.3.2	$(1,0,2)$	$-m^2+(48k_0m_0+22k_0+48m_0^2+66m_0+18)m-576k_0^2m_0^2-480k_0^2m_0-97k_0^2-1152k_0m_0^3-2064k_0m_0^2-1060k_0m_0-161k_0-576m_0^4-1584m_0^3-1489m_0^2-551m_0-67$
3.3.3	$(2,0,2)$	$-m^2+(48k_0m_0+34k_0+48m_0^2+90m_0+38)m-576k_0^2m_0^2-768k_0^2m_0-253k_0^2-1152k_0m_0^3-2928k_0m_0^2-2320k_0m_0-580k_0-576m_0^4-2160m_0^3-2905m_0^2-1649m_0-332$
3.3.4	$(3,0,2)$	$-m^2+(48k_0m_0+46k_0+48m_0^2+114m_0+63)m-576k_0^2m_0^2-1056k_0^2m_0-481k_0^2-1152k_0m_0^3-3792k_0m_0^2-3988k_0m_0-1351k_0-576m_0^4-2736m_0^3-4729m_0^2-3516m_0-949$
3.3.5	$(0,1,2)$	$-m^2+(48k_0m_0+10k_0+48m_0^2+42m_0+4)m-576k_0^2m_0^2-192k_0^2m_0-13k_0^2-1152k_0m_0^3-1200k_0m_0^2-232k_0m_0-6k_0-576m_0^4-1008m_0^3-505m_0^2-57m_0$
3.3.6	$(1,1,2)$	$-m^2+(48k_0m_0+22k_0+48m_0^2+66m_0+18)m-576k_0^2m_0^2-480k_0^2m_0-97k_0^2-1152k_0m_0^3-2064k_0m_0^2-1060k_0m_0-161k_0-576m_0^4-1584m_0^3-1489m_0^2-549m_0-67$
3.3.7	$(2,1,2)$	$-m^2+(48k_0m_0+34k_0+48m_0^2+90m_0+37)m-576k_0^2m_0^2-768k_0^2m_0-253k_0^2-1152k_0m_0^3-2928k_0m_0^2-2296k_0m_0-566k_0-576m_0^4-2160m_0^3-2881m_0^2-1606m_0-317$
3.3.8	$(3,1,2)$	$-m^2+(48k_0m_0+46k_0+48m_0^2+114m_0+63)m-576k_0^2m_0^2-1056k_0^2m_0-481k_0^2-1152k_0m_0^3-3792k_0m_0^2-3988k_0m_0-1351k_0-576m_0^4-2736m_0^3-4729m_0^2-3514m_0-947$
3.3.9	$(0,2,2)$	$-m^2+(48k_0m_0+10k_0+48m_0^2+42m_0+4)m-576k_0^2m_0^2-192k_0^2m_0-13k_0^2-1152k_0m_0^3-1200k_0m_0^2-232k_0m_0-3k_0-576m_0^4-1008m_0^3-505m_0^2-55m_0+2$
3.3.10	$(1,2,2)$	$-m^2+(48k_0m_0+22k_0+48m_0^2+66m_0+17)m-576k_0^2m_0^2-480k_0^2m_0-97k_0^2-1152k_0m_0^3-2064k_0m_0^2-1036k_0m_0-150k_0-576m_0^4-1584m_0^3-1465m_0^2-518m_0-59$
3.3.11	$(2,2,2)$	$-m^2+(48k_0m_0+34k_0+48m_0^2+90m_0+37)m-576k_0^2m_0^2-768k_0^2m_0-253k_0^2-1152k_0m_0^3-2928k_0m_0^2-2296k_0m_0-563k_0-576m_0^4-2160m_0^3-2881m_0^2-1604m_0-314$
3.3.12	$(3,2,2)$	$-m^2+(48k_0m_0+46k_0+48m_0^2+114m_0+62)m-576k_0^2m_0^2-1056k_0^2m_0-481k_0^2-1152k_0m_0^3-3792k_0m_0^2-3964k_0m_0-1328k_0-576m_0^4-2736m_0^3-4705m_0^2-3459m_0-918$
3.3.13	$(0,3,2)$	$-m^2+(48k_0m_0+10k_0+48m_0^2+42m_0+3)m-576k_0^2m_0^2-192k_0^2m_0-13k_0^2-1152k_0m_0^3-1200k_0m_0^2-208k_0m_0-k_0-576m_0^4-1008m_0^3-481m_0^2-36m_0+2$
3.3.14	$(1,3,2)$	$-m^2+(48k_0m_0+22k_0+48m_0^2+66m_0+17)m-576k_0^2m_0^2-480k_0^2m_0-97k_0^2-1152k_0m_0^3-2064k_0m_0^2-1036k_0m_0-150k_0-576m_0^4-1584m_0^3-1465m_0^2-516m_0-57$
3.3.15	$(2,3,2)$	$-m^2+(48k_0m_0+34k_0+48m_0^2+90m_0+36)m-576k_0^2m_0^2-768k_0^2m_0-253k_0^2-1152k_0m_0^3-2928k_0m_0^2-2272k_0m_0-549k_0-576m_0^4-2160m_0^3-2857m_0^2-1561m_0-298$
3.3.16	$(3,3,2)$	$-m^2+(48k_0m_0+46k_0+48m_0^2+114m_0+62)m-576k_0^2m_0^2-1056k_0^2m_0-481k_0^2-1152k_0m_0^3-3792k_0m_0^2-3964k_0m_0-1328k_0-576m_0^4-2736m_0^3-4705m_0^2-3457m_0-916$
4.3.1	$(0,0,2)$	$(-4m_0-1)m+48k_0^2m_0+12k_0^2+144k_0m_0^2+118k_0m_0+22k_0+96m_0^3+144m_0^2+62m_0+9$

Continued on next page

Table 3 – continued from previous page

Case	(n, n_0, k)	$f(m)$
4.3.2	$(1,0,2)$	$(-4m_0-2)m+48k_0^2m_0+24k_0^2+144k_0m_0^2+190k_0m_0+59k_0+96m_0^3+216m_0^2+149m_0+33$
4.3.3	$(2,0,2)$	$(-4m_0-3)m+48k_0^2m_0+36k_0^2+144k_0m_0^2+262k_0m_0+117k_0+96m_0^3+288m_0^2++278m_0+88$
4.3.4	$(3,0,2)$	$(-4m_0-4)m+48k_0^2m_0+48k_0^2+144k_0m_0^2+334k_0m_0+190k_0+96m_0^3+360m_0^2+437m_0+173$
4.3.5	$(0,1,2)$	$(-4m_0-1)m+48k_0^2m_0+12k_0^2+144k_0m_0^2+118k_0m_0+19k_0+96m_0^3+144m_0^2+58m_0+6$
4.3.6	$(1,1,2)$	$(-4m_0-2)m+48k_0^2m_0+24k_0^2+144k_0m_0^2+190k_0m_0+59k_0+96m_0^3+216m_0^2+151m_0+33$
4.3.7	$(2,1,2)$	$(-4m_0-3)m+48k_0^2m_0+36k_0^2+144k_0m_0^2+262k_0m_0+114k_0+96m_0^3+288m_0^2+274m_0+83$
4.3.8	$(3,1,2)$	$(-4m_0-4)m+48k_0^2m_0+48k_0^2+144k_0m_0^2+334k_0m_0+190k_0+96m_0^3+360m_0^2+439m_0+175$
4.3.9	$(0,2,2)$	$(-4m_0-1)m+48k_0^2m_0+12k_0^2+144k_0m_0^2+118k_0m_0+22k_0+96m_0^3+144m_0^2+60m_0+8$
4.3.10	$(1,2,2)$	$(-4m_0-2)m+48k_0^2m_0+24k_0^2+144k_0m_0^2+190k_0m_0+59k_0+96m_0^3+216m_0^2+147m_0+31$
4.3.11	$(2,2,2)$	$(-4m_0-3)m+48k_0^2m_0+36k_0^2+144k_0m_0^2+262k_0m_0+117k_0+96m_0^3+288m_0^2+276m_0+86$
4.3.12	$(3,2,2)$	$(-4m_0-4)m+48k_0^2m_0+48k_0^2+144k_0m_0^2+334k_0m_0+190k_0+96m_0^3+360m_0^2+435m_0+171$
4.3.13	$(0,3,2)$	$(-4m_0-1)m+48k_0^2m_0+12k_0^2+144k_0m_0^2+118k_0m_0+19k_0+96m_0^3+144m_0^2+56m_0+6$
4.3.14	$(1,3,2)$	$(-4m_0-2)m+48k_0^2m_0+24k_0^2+144k_0m_0^2+190k_0m_0+59k_0+96m_0^3+216m_0^2+149m_0+33$
4.3.15	$(2,3,2)$	$(-4m_0-3)m+48k_0^2m_0+36k_0^2+144k_0m_0^2+262k_0m_0+114k_0+96m_0^3+288m_0^2+272m_0+82$
4.3.16	$(3,3,2)$	$(-4m_0-4)m+48k_0^2m_0+48k_0^2+144k_0m_0^2+334k_0m_0+190k_0+96m_0^3+360m_0^2+437m_0+173$

Table 4: The cases $k \equiv 3 \pmod 4$ in the proof of Theorem 3.1

Case	(n, n_0, k)	$f(m)$
1.4.1	$(0,0,3)$	$m^2+(-48k_0m_0-48m_0^2-42m_0+2)m+576k_0^2m_0^2+48k_0^2m_0+1152k_0m_0^3+1056k_0m_0^2+34k_0m_0+576m_0^4+1008m_0^3+433m_0^2-8m_0+1$
1.4.2	$(1,0,3)$	$m^2+(-48k_0m_0-12k_0-48m_0^2-66m_0-11)m+576k_0^2m_0^2+336k_0^2m_0+48k_0^2+1152k_0m_0^3+1920k_0m_0^2+766k_0m_0+90k_0+576m_0^4+1584m_0^3+1393m_0^2+419m_0+42$
1.4.3	$(2,0,3)$	$m^2+(-48k_0m_0-24k_0-48m_0^2-90m_0-31)m+576k_0^2m_0^2+624k_0^2m_0+168k_0^2+1152k_0m_0^3+2784k_0m_0^2+1954k_0m_0+425k_0+576m_0^4+2160m_0^3+2809m_0^2+1469m_0+267$
1.4.4	$(3,0,3)$	$m^2+(-48k_0m_0-36k_0-48m_0^2-114m_0-56)m+576k_0^2m_0^2+912k_0^2m_0+360k_0^2+1152k_0m_0^3+3648k_0m_0^2+3550k_0m_0+1097k_0+576m_0^4+2736m_0^3+4633m_0^2+3288m_0+834$
1.4.5	$(0,1,3)$	$m^2+(-48k_0m_0-48m_0^2-42m_0+2)m+576k_0^2m_0^2+48k_0^2m_0+1152k_0m_0^3+1056k_0m_0^2+10k_0m_0+576m_0^4+1008m_0^3+409m_0^2-27m_0+1$
1.4.6	$(1,1,3)$	$m^2+(-48k_0m_0-12k_0-48m_0^2-66m_0-12)m+576k_0^2m_0^2+336k_0^2m_0+48k_0^2+1152k_0m_0^3+1920k_0m_0^2+766k_0m_0+89k_0+576m_0^4+1584m_0^3+1393m_0^2+417m_0+40$
1.4.7	$(2,1,3)$	$m^2+(-48k_0m_0-24k_0-48m_0^2-90m_0-31)m+576k_0^2m_0^2+624k_0^2m_0+168k_0^2+1152k_0m_0^3+2784k_0m_0^2+1930k_0m_0+413k_0+576m_0^4+2160m_0^3+2785m_0^2+1426m_0+252$
1.4.7	$(3,1,3)$	$m^2+(-48k_0m_0-36k_0-48m_0^2-114m_0-57)m+576k_0^2m_0^2+912k_0^2m_0+360k_0^2+1152k_0m_0^3+3648k_0m_0^2+3550k_0m_0+1096k_0+576m_0^4+2736m_0^3+4633m_0^2+3286m_0+830$
1.4.9	$(0,2,3)$	$m^2+(-48k_0m_0-48m_0^2-42m_0+3)m+576k_0^2m_0^2+48k_0^2m_0+1152k_0m_0^3+1056k_0m_0^2+10k_0m_0+576m_0^4+1008m_0^3+409m_0^2-29m_0+2$
1.4.10	$(1,2,3)$	$m^2+(-48k_0m_0-12k_0-48m_0^2-66m_0-10)m+576k_0^2m_0^2+336k_0^2m_0+48k_0^2+1152k_0m_0^3+1920k_0m_0^2+742k_0m_0+84k_0+576m_0^4+1584m_0^3+1369m_0^2+386m_0+37$
1.4.11	$(2,2,3)$	$m^2+(-48k_0m_0-24k_0-48m_0^2-90m_0-30)m+576k_0^2m_0^2+624k_0^2m_0+168k_0^2+1152k_0m_0^3+2784k_0m_0^2+1930k_0m_0+413k_0+576m_0^4+2160m_0^3+2785m_0^2+1424m_0+252$
1.4.12	$(3,2,3)$	$m^2+(-48k_0m_0-36k_0-48m_0^2-114m_0-55)m+576k_0^2m_0^2+912k_0^2m_0+360k_0^2+1152k_0m_0^3+3648k_0m_0^2+3526k_0m_0+1079k_0+576m_0^4+2736m_0^3+4609m_0^2+3231m_0+806$
1.4.13	$(0,3,3)$	$m^2+(-48k_0m_0-48m_0^2-42m_0+3)m+576k_0^2m_0^2+48k_0^2m_0+1152k_0m_0^3+1056k_0m_0^2-14k_0m_0+576m_0^4+1008m_0^3+385m_0^2-48m_0+2$
1.4.14	$(1,3,3)$	$m^2+(-48k_0m_0-12k_0-48m_0^2-66m_0-11)m+576k_0^2m_0^2+336k_0^2m_0+48k_0^2+1152k_0m_0^3+1920k_0m_0^2+742k_0m_0+83k_0+576m_0^4+1584m_0^3+1369m_0^2+384m_0+33$
1.4.15	$(2,3,3)$	$m^2+(-48k_0m_0-24k_0-48m_0^2-90m_0-30)m+576k_0^2m_0^2+624k_0^2m_0+168k_0^2+1152k_0m_0^3+2784k_0m_0^2+1906k_0m_0+401k_0+576m_0^4+2160m_0^3+2761m_0^2+1381m_0+236$
1.4.16	$(3,3,3)$	$m^2+(-48k_0m_0-36k_0-48m_0^2-114m_0-56)m+576k_0^2m_0^2+912k_0^2m_0+360k_0^2+1152k_0m_0^3+3648k_0m_0^2+3526k_0m_0+1078k_0+576m_0^4+2736m_0^3+4609m_0^2+3229m_0+802$
2.4.1	$(0,0,3)$	$(4k_0+4m_0+4)m-48k_0^2m_0-4k_0^2-144k_0m_0^2-106k_0m_0-4k_0-96m_0^3-144m_0^2-54m_0$
2.4.2	$(1,0,3)$	$(4k_0+4m_0+5)m-48k_0^2m_0-16k_0^2-144k_0m_0^2-178k_0m_0-38k_0-96m_0^3-216m_0^2-141m_0-22$
2.4.3	$(2,0,3)$	$(4k_0+4m_0+6)m-48k_0^2m_0-28k_0^2-144k_0m_0^2-250k_0m_0-93k_0-96m_0^3-288m_0^2-270m_0-75$
2.4.4	$(3,0,3)$	$(4k_0+4m_0+7)m-48k_0^2m_0-40k_0^2-144k_0m_0^2-322k_0m_0-163k_0-96m_0^3-360m_0^2-429m_0-158$
2.4.5	$(0,1,3)$	$(4k_0+4m_0+3)m-48k_0^2m_0-4k_0^2-144k_0m_0^2-106k_0m_0-2k_0-96m_0^3-144m_0^2-50m_0+1$
2.4.6	$(1,1,3)$	$(4k_0+4m_0+4)m-48k_0^2m_0-16k_0^2-144k_0m_0^2-178k_0m_0-39k_0-96m_0^3-216m_0^2-143m_0-24$
2.4.7	$(2,1,3)$	$(4k_0+4m_0+5)m-48k_0^2m_0-28k_0^2-144k_0m_0^2-250k_0m_0-91k_0-96m_0^3-288m_0^2-266m_0-72$
2.4.8	$(3,1,3)$	$(4k_0+4m_0+6)m-48k_0^2m_0-40k_0^2-144k_0m_0^2-322k_0m_0-164k_0-96m_0^3-360m_0^2-431m_0-162$
2.4.9	$(0,2,3)$	$(4k_0+4m_0+4)m-48k_0^2m_0-4k_0^2-144k_0m_0^2-106k_0m_0-2k_0-96m_0^3-144m_0^2-52m_0+2$
2.4.10	$(1,2,3)$	$(4k_0+4m_0+5)m-48k_0^2m_0-16k_0^2-144k_0m_0^2-178k_0m_0-36k_0-96m_0^3-216m_0^2-139m_0-19$
2.4.11	$(2,2,3)$	$(4k_0+4m_0+6)m-48k_0^2m_0-28k_0^2-144k_0m_0^2-250k_0m_0-91k_0-96m_0^3-288m_0^2-268m_0-72$
2.4.12	$(3,2,3)$	$(4k_0+4m_0+7)m-48k_0^2m_0-40k_0^2-144k_0m_0^2-322k_0m_0-161k_0-96m_0^3-360m_0^2-427m_0-155$
2.4.13	$(0,3,3)$	$(4k_0+4m_0+3)m-48k_0^2m_0-4k_0^2-144k_0m_0^2-106k_0m_0-96m_0^3-144m_0^2-48m_0+2$
2.4.14	$(1,3,3)$	$(4k_0+4m_0+4)m-48k_0^2m_0-16k_0^2-144k_0m_0^2-178k_0m_0-37k_0-96m_0^3-216m_0^2-141m_0-23$
2.4.15	$(2,3,3)$	$(4k_0+4m_0+5)m-48k_0^2m_0-28k_0^2-144k_0m_0^2-250k_0m_0-89k_0-96m_0^3-288m_0^2-264m_0-70$
2.4.16	$(3,3,3)$	$(4k_0+4m_0+6)m-48k_0^2m_0-40k_0^2-144k_0m_0^2-322k_0m_0-162k_0-96m_0^3-360m_0^2-429m_0-159$
3.4.1	$(0,0,3)$	$-m^2+(48k_0m_0+10k_0+48m_0^2+54m_0+8)m-576k_0^2m_0^2-192k_0^2m_0-13k_0^2-1152k_0m_0^3-1488k_0m_0^2-352k_0m_0-16k_0-576m_0^4-1296m_0^3-865m_0^2-154m_0-4$
3.4.2	$(1,0,3)$	$-m^2+(48k_0m_0+22k_0+48m_0^2+78m_0+24)m-576k_0^2m_0^2-480k_0^2m_0-97k_0^2-1152k_0m_0^3-2352k_0m_0^2-1300k_0m_0-209k_0-576m_0^4-1872m_0^3-2041m_0^2-844m_0-112$
3.4.3	$(2,0,3)$	$-m^2+(48k_0m_0+34k_0+48m_0^2+102m_0+47)m-576k_0^2m_0^2-768k_0^2m_0-253k_0^2-1152k_0m_0^3-3216k_0m_0^2-2704k_0m_0-708k_0-576m_0^4-2448m_0^3-3673m_0^2-2279m_0-495$
3.4.4	$(3,0,3)$	$-m^2+(48k_0m_0+46k_0+48m_0^2+126m_0+75)m-576k_0^2m_0^2-1056k_0^2m_0-481k_0^2-1152k_0m_0^3-4080k_0m_0^2-4516k_0m_0-1591k_0-576m_0^4-3024m_0^3-5713m_0^2-4577m_0-1314$
3.4.5	$(0,1,3)$	$-m^2+(48k_0m_0+10k_0+48m_0^2+54m_0+6)m-576k_0^2m_0^2-192k_0^2m_0-13k_0^2-1152k_0m_0^3-1488k_0m_0^2-328k_0m_0-11k_0-576m_0^4-1296m_0^3-841m_0^2-125m_0-1$
3.4.6	$(1,1,3)$	$-m^2+(48k_0m_0+22k_0+48m_0^2+78m_0+23)m-576k_0^2m_0^2-480k_0^2m_0-97k_0^2-1152k_0m_0^3-2352k_0m_0^2-1300k_0m_0-210k_0-576m_0^4-1872m_0^3-2041m_0^2-846m_0-114$
3.4.7	$(2,1,3)$	$-m^2+(48k_0m_0+34k_0+48m_0^2+102m_0+45)m-576k_0^2m_0^2-768k_0^2m_0-253k_0^2-1152k_0m_0^3-3216k_0m_0^2-2680k_0m_0-691k_0-576m_0^4-2448m_0^3-3649m_0^2-2226m_0-472$
3.4.8	$(3,1,3)$	$-m^2+(48k_0m_0+46k_0+48m_0^2+126m_0+74)m-576k_0^2m_0^2-1056k_0^2m_0-481k_0^2-1152k_0m_0^3-4080k_0m_0^2-4516k_0m_0-1592k_0-576m_0^4-3024m_0^3-5713m_0^2-4579m_0-1318$
3.4.9	$(0,2,3)$	$-m^2+(48k_0m_0+10k_0+48m_0^2+54m_0+7)m-576k_0^2m_0^2-192k_0^2m_0-13k_0^2-1152k_0m_0^3-1488k_0m_0^2-328k_0m_0-11k_0-576m_0^4-1296m_0^3-841m_0^2-127m_0$
3.4.10	$(1,2,3)$	$-m^2+(48k_0m_0+22k_0+48m_0^2+78m_0+23)m-576k_0^2m_0^2-480k_0^2m_0-97k_0^2-1152k_0m_0^3-2352k_0m_0^2-1276k_0m_0-198k_0-576m_0^4-1872m_0^3-2017m_0^2-805m_0-100$
3.4.11	$(2,2,3)$	$-m^2+(48k_0m_0+34k_0+48m_0^2+102m_0+46)m-576k_0^2m_0^2-768k_0^2m_0-253k_0^2-1152k_0m_0^3-3216k_0m_0^2-2680k_0m_0-691k_0-576m_0^4-2448m_0^3-3649m_0^2-2228m_0-472$
3.4.12	$(3,2,3)$	$-m^2+(48k_0m_0+46k_0+48m_0^2+126m_0+74)m-576k_0^2m_0^2-1056k_0^2m_0-481k_0^2-1152k_0m_0^3-4080k_0m_0^2-4492k_0m_0-1568k_0-576m_0^4-3024m_0^3-5689m_0^2-4514m_0-1277$
3.4.13	$(0,3,3)$	$-m^2+(48k_0m_0+10k_0+48m_0^2+54m_0+5)m-576k_0^2m_0^2-192k_0^2m_0-13k_0^2-1152k_0m_0^3-1488k_0m_0^2-304k_0m_0-6k_0-576m_0^4-1296m_0^3-817m_0^2-98m_0+1$
3.4.14	$(1,3,3)$	$-m^2+(48k_0m_0+22k_0+48m_0^2+78m_0+22)-576k_0^2m_0^2-480k_0^2m_0-97k_0^2-1152k_0m_0^3-2352k_0m_0^2-1276k_0m_0-199k_0-576m_0^4-1872m_0^3-2017m_0^2-807m_0-104$
3.4.15	$(2,3,3)$	$-m^2+(48k_0m_0+34k_0+48m_0^2+102m_0+44)m-576k_0^2m_0^2-768k_0^2m_0-253k_0^2-1152k_0m_0^3-3216k_0m_0^2-2656k_0m_0-674k_0-576m_0^4-2448m_0^3-3625m_0^2-2175m_0-450$
3.4.16	$(3,3,3)$	$-m^2+(48k_0m_0+46k_0+48m_0^2+126m_0+73)m-576k_0^2m_0^2-1056k_0^2m_0-481k_0^2-1152k_0m_0^3-4080k_0m_0^2-4492k_0m_0-1569k_0-576m_0^4-3024m_0^3-5689m_0^2-4516m_0-1281$
4.4.1	$(0,0,3)$	$-4m_0m+48k_0^2m_0+12k_0^2+144k_0m_0^2+130k_0m_0+24k_0+96m_0^3+168m_0^2+78m_0+12$

Continued on next page

Table 4 – continued from previous page

Case	(n, n_0, k)	$f(m)$
4.4.2	$(1, 0, 3)$	$(-4m_0 - 2)m + 48k_0^2 m_0 + 24k_0^2 + 144k_0 m_0^2 + 226k_0 m_0 + 77k_0 + 96m_0^3 + 264m_0^2 + 222m_0 + 57$
4.4.3	$(2, 0, 3)$	$(-4m_0 - 2)m + 48k_0^2 m_0 + 36k_0^2 + 144k_0 m_0^2 + 274k_0 m_0 + 125k_0 + 96m_0^3 + 312m_0^2 + 318m_0 + 105$
4.4.4	$(3, 0, 3)$	$(-4m_0 - 4)m + 48k_0^2 m_0 + 48k_0^2 + 144k_0 m_0^2 + 370k_0 m_0 + 226k_0 + 96m_0^3 + 408m_0^2 + 558m_0 + 246$
4.4.5	$(0, 1, 3)$	$(-4m_0 - 2)m + 48k_0^2 m_0 + 12k_0^2 + 144k_0 m_0^2 + 154k_0 m_0 + 29k_0 + 96m_0^3 + 192m_0^2 + 107m_0 + 15$
4.4.6	$(1, 1, 3)$	$(-4m_0 - 2)m + 48k_0^2 m_0 + 24k_0^2 + 144k_0 m_0^2 + 202k_0 m_0 + 65k_0 + 96m_0^3 + 240m_0^2 + 179m_0 + 42$
4.4.7	$(2, 1, 3)$	$(-4m_0 - 4)m + 48k_0^2 m_0 + 36k_0^2 + 144k_0 m_0^2 + 298k_0 m_0 + 142k_0 + 96m_0^3 + 336m_0^2 + 371m_0 + 128$
4.4.8	$(3, 1, 3)$	$(-4m_0 - 4)m + 48k_0^2 m_0 + 48k_0^2 + 144k_0 m_0^2 + 346k_0 m_0 + 202k_0 + 96m_0^3 + 384m_0^2 + 491m_0 + 203$
4.4.9	$(0, 2, 3)$	$-4m_0 m + 48k_0^2 m_0 + 12k_0^2 + 144k_0 m_0^2 + 130k_0 m_0 + 24k_0 + 96m_0^3 + 168m_0^2 + 76m_0 + 12$
4.4.10	$(1, 2, 3)$	$(-4m_0 - 2)m + 48k_0^2 m_0 + 24k_0^2 + 144k_0 m_0^2 + 226k_0 m_0 + 77k_0 + 96m_0^3 + 264m_0^2 + 220m_0 + 56$
4.4.11	$(2, 2, 3)$	$(-4m_0 - 2)m + 48k_0^2 m_0 + 36k_0^2 + 144k_0 m_0^2 + 274k_0 m_0 + 125k_0 + 96m_0^3 + 312m_0^2 + 316m_0 + 104$
4.4.12	$(3, 2, 3)$	$(-4m_0 - 4)m + 48k_0^2 m_0 + 48k_0^2 + 144k_0 m_0^2 + 370k_0 m_0 + 226k_0 + 96m_0^3 + 408m_0^2 + 556m_0 + 244$
4.4.13	$(0, 3, 3)$	$(-4m_0 - 2)m + 48k_0^2 m_0 + 12k_0^2 + 144k_0 m_0^2 + 154k_0 m_0 + 29k_0 + 96m_0^3 + 192m_0^2 + 105m_0 + 13$
4.4.14	$(1, 3, 3)$	$(-4m_0 - 2)m + 48k_0^2 m_0 + 24k_0^2 + 144k_0 m_0^2 + 202k_0 m_0 + 65k_0 + 96m_0^3 + 240m_0^2 + 177m_0 + 40$
4.4.15	$(2, 3, 3)$	$(-4m_0 - 4)m + 48k_0^2 m_0 + 36k_0^2 + 144k_0 m_0^2 + 298k_0 m_0 + 142k_0 + 96m_0^3 + 336m_0^2 + 369m_0 + 126$
4.4.16	$(3, 3, 3)$	$(-4m_0 - 4)m + 48k_0^2 m_0 + 48k_0^2 + 144k_0 m_0^2 + 346k_0 m_0 + 202k_0 + 96m_0^3 + 384m_0^2 + 489m_0 + 201$