

$$c[k, j] = \text{Together}\left[\frac{1}{2\,615\,348\,736\,000\,(j-k)\,\omega^{16}}\right.$$

$$\begin{aligned} & (k_1 c[-15+k, 1+j] + j k_1 c[-15+k, 1+j] - 16\,384 k_2 c[-15+k, 1+j] - \\ & 16\,384 j k_2 c[-15+k, 1+j] - 14 k_1 c[-14+k, j] - 15 j k_1 c[-14+k, j] + \\ & k k_1 c[-14+k, j] + 229\,376 k_2 c[-14+k, j] + 245\,760 j k_2 c[-14+k, j] - \\ & 16\,384 k k_2 c[-14+k, j] + 90 k_1 c[-13+k, -1+j] + 105 j k_1 c[-13+k, -1+j] - \\ & 15 k k_1 c[-13+k, -1+j] - 1\,474\,560 k_2 c[-13+k, -1+j] - \\ & 1\,720\,320 j k_2 c[-13+k, -1+j] + 245\,760 k k_2 c[-13+k, -1+j] + \\ & 210 k_1 \omega^2 c[-13+k, 1+j] + 210 j k_1 \omega^2 c[-13+k, 1+j] - \\ & 860\,160 k_2 \omega^2 c[-13+k, 1+j] - 860\,160 j k_2 \omega^2 c[-13+k, 1+j] - \\ & 350 k_1 c[-12+k, -2+j] - 455 j k_1 c[-12+k, -2+j] + 105 k k_1 c[-12+k, -2+j] + \\ & 5\,734\,400 k_2 c[-12+k, -2+j] + 7\,454\,720 j k_2 c[-12+k, -2+j] - \\ & 1\,720\,320 k k_2 c[-12+k, -2+j] - 2520 k_1 \omega^2 c[-12+k, j] - \\ & 2730 j k_1 \omega^2 c[-12+k, j] + 210 k k_1 \omega^2 c[-12+k, j] + 10\,321\,920 k_2 \omega^2 c[-12+k, j] + \\ & 11\,182\,080 j k_2 \omega^2 c[-12+k, j] - 860\,160 k k_2 \omega^2 c[-12+k, j] + \\ & 910 k_1 c[-11+k, -3+j] + 1365 j k_1 c[-11+k, -3+j] - 455 k k_1 c[-11+k, -3+j] - \\ & 14\,909\,440 k_2 c[-11+k, -3+j] - 22\,364\,160 j k_2 c[-11+k, -3+j] + \\ & 7\,454\,720 k k_2 c[-11+k, -3+j] + 13\,650 k_1 \omega^2 c[-11+k, -1+j] + \\ & 16\,380 j k_1 \omega^2 c[-11+k, -1+j] - 2730 k k_1 \omega^2 c[-11+k, -1+j] - \\ & 55\,910\,400 k_2 \omega^2 c[-11+k, -1+j] - 67\,092\,480 j k_2 \omega^2 c[-11+k, -1+j] + \\ & 11\,182\,080 k k_2 \omega^2 c[-11+k, -1+j] + 32\,760 k_1 \omega^4 c[-11+k, 1+j] + \\ & 32\,760 j k_1 \omega^4 c[-11+k, 1+j] - 33\,546\,240 k_2 \omega^4 c[-11+k, 1+j] - \\ & 33\,546\,240 j k_2 \omega^4 c[-11+k, 1+j] - 1638 k_1 c[-10+k, -4+j] - \\ & 3003 j k_1 c[-10+k, -4+j] + 1365 k k_1 c[-10+k, -4+j] + \\ & 26\,836\,992 k_2 c[-10+k, -4+j] + 49\,201\,152 j k_2 c[-10+k, -4+j] - \\ & 22\,364\,160 k k_2 c[-10+k, -4+j] - 43\,680 k_1 \omega^2 c[-10+k, -2+j] - \\ & 60\,060 j k_1 \omega^2 c[-10+k, -2+j] + 16\,380 k k_1 \omega^2 c[-10+k, -2+j] + \\ & 178\,913\,280 k_2 \omega^2 c[-10+k, -2+j] + 246\,005\,760 j k_2 \omega^2 c[-10+k, -2+j] - \\ & 67\,092\,480 k k_2 \omega^2 c[-10+k, -2+j] - 327\,600 k_1 \omega^4 c[-10+k, j] - \\ & 360\,360 j k_1 \omega^4 c[-10+k, j] + 32\,760 k k_1 \omega^4 c[-10+k, j] + \\ & 335\,462\,400 k_2 \omega^4 c[-10+k, j] + 369\,008\,640 j k_2 \omega^4 c[-10+k, j] - \\ & 33\,546\,240 k k_2 \omega^4 c[-10+k, j] + 2002 k_1 c[-9+k, -5+j] + \\ & 5005 j k_1 c[-9+k, -5+j] - 3003 k k_1 c[-9+k, -5+j] - \\ & 32\,800\,768 k_2 c[-9+k, -5+j] - 82\,001\,920 j k_2 c[-9+k, -5+j] + \\ & 49\,201\,152 k k_2 c[-9+k, -5+j] + 90\,090 k_1 \omega^2 c[-9+k, -3+j] + \\ & 150\,150 j k_1 \omega^2 c[-9+k, -3+j] - 60\,060 k k_1 \omega^2 c[-9+k, -3+j] - \\ & 369\,008\,640 k_2 \omega^2 c[-9+k, -3+j] - 615\,014\,400 j k_2 \omega^2 c[-9+k, -3+j] + \\ & 246\,005\,760 k k_2 \omega^2 c[-9+k, -3+j] + 1\,441\,440 k_1 \omega^4 c[-9+k, -1+j] + \\ & 1\,801\,800 j k_1 \omega^4 c[-9+k, -1+j] - 360\,360 k k_1 \omega^4 c[-9+k, -1+j] - \\ & 1\,476\,034\,560 k_2 \omega^4 c[-9+k, -1+j] - 1\,845\,043\,200 j k_2 \omega^4 c[-9+k, -1+j] + \\ & 369\,008\,640 k k_2 \omega^4 c[-9+k, -1+j] + 3\,603\,600 k_1 \omega^6 c[-9+k, 1+j] + \\ & 3\,603\,600 j k_1 \omega^6 c[-9+k, 1+j] - 922\,521\,600 k_2 \omega^6 c[-9+k, 1+j] - \\ & 922\,521\,600 j k_2 \omega^6 c[-9+k, 1+j] - 1430 k_1 c[-8+k, -6+j] - \\ & 6435 j k_1 c[-8+k, -6+j] + 5005 k k_1 c[-8+k, -6+j] + \\ & 23\,429\,120 k_2 c[-8+k, -6+j] + 105\,431\,040 j k_2 c[-8+k, -6+j] - \\ & 82\,001\,920 k k_2 c[-8+k, -6+j] - 120\,120 k_1 \omega^2 c[-8+k, -4+j] - \\ & 270\,270 j k_1 \omega^2 c[-8+k, -4+j] + 150\,150 k k_1 \omega^2 c[-8+k, -4+j] + \end{aligned}$$

$$\begin{aligned}
& 492\,011\,520\,k^2\,\omega^2\,c[-8+k,-4+j] + 1\,107\,025\,920\,j\,k^2\,\omega^2\,c[-8+k,-4+j] - \\
& 615\,014\,400\,k\,k^2\,\omega^2\,c[-8+k,-4+j] - 3\,603\,600\,k^1\,\omega^4\,c[-8+k,-2+j] - \\
& 5\,405\,400\,j\,k^1\,\omega^4\,c[-8+k,-2+j] + 1\,801\,800\,k\,k^1\,\omega^4\,c[-8+k,-2+j] + \\
& 3\,690\,086\,400\,k^2\,\omega^4\,c[-8+k,-2+j] + 5\,535\,129\,600\,j\,k^2\,\omega^4\,c[-8+k,-2+j] - \\
& 1\,845\,043\,200\,k\,k^2\,\omega^4\,c[-8+k,-2+j] - 28\,828\,800\,k^1\,\omega^6\,c[-8+k,j] - \\
& 32\,432\,400\,j\,k^1\,\omega^6\,c[-8+k,j] + 3\,603\,600\,k\,k^1\,\omega^6\,c[-8+k,j] + \\
& 7\,380\,172\,800\,k^2\,\omega^6\,c[-8+k,j] + 8\,302\,694\,400\,j\,k^2\,\omega^6\,c[-8+k,j] - \\
& 922\,521\,600\,k\,k^2\,\omega^6\,c[-8+k,j] + 6435\,j\,k^1\,c[-7+k,-7+j] - \\
& 6435\,k\,k^1\,c[-7+k,-7+j] - 105\,431\,040\,j\,k^2\,c[-7+k,-7+j] + \\
& 105\,431\,040\,k\,k^2\,c[-7+k,-7+j] + 90\,090\,k^1\,\omega^2\,c[-7+k,-5+j] + \\
& 360\,360\,j\,k^1\,\omega^2\,c[-7+k,-5+j] - 270\,270\,k\,k^1\,\omega^2\,c[-7+k,-5+j] - \\
& 369\,008\,640\,k^2\,\omega^2\,c[-7+k,-5+j] - 1\,476\,034\,560\,j\,k^2\,\omega^2\,c[-7+k,-5+j] + \\
& 1\,107\,025\,920\,k\,k^2\,\omega^2\,c[-7+k,-5+j] + 5\,405\,400\,k^1\,\omega^4\,c[-7+k,-3+j] + \\
& 10\,810\,800\,j\,k^1\,\omega^4\,c[-7+k,-3+j] - 5\,405\,400\,k\,k^1\,\omega^4\,c[-7+k,-3+j] - \\
& 5\,535\,129\,600\,k^2\,\omega^4\,c[-7+k,-3+j] - 11\,070\,259\,200\,j\,k^2\,\omega^4\,c[-7+k,-3+j] + \\
& 5\,535\,129\,600\,k\,k^2\,\omega^4\,c[-7+k,-3+j] + 97\,297\,200\,k^1\,\omega^6\,c[-7+k,-1+j] + \\
& 129\,729\,600\,j\,k^1\,\omega^6\,c[-7+k,-1+j] - 32\,432\,400\,k\,k^1\,\omega^6\,c[-7+k,-1+j] - \\
& 24\,908\,083\,200\,k^2\,\omega^6\,c[-7+k,-1+j] - 33\,210\,777\,600\,j\,k^2\,\omega^6\,c[-7+k,-1+j] + \\
& 8\,302\,694\,400\,k\,k^2\,\omega^6\,c[-7+k,-1+j] + 259\,459\,200\,k^1\,\omega^8\,c[-7+k,1+j] + \\
& 259\,459\,200\,j\,k^1\,\omega^8\,c[-7+k,1+j] - 16\,605\,388\,800\,k^2\,\omega^8\,c[-7+k,1+j] - \\
& 16\,605\,388\,800\,j\,k^2\,\omega^8\,c[-7+k,1+j] + 1430\,k^1\,c[-6+k,-8+j] - \\
& 5005\,j\,k^1\,c[-6+k,-8+j] + 6435\,k\,k^1\,c[-6+k,-8+j] - \\
& 23\,429\,120\,k^2\,c[-6+k,-8+j] + 82\,001\,920\,j\,k^2\,c[-6+k,-8+j] - \\
& 105\,431\,040\,k\,k^2\,c[-6+k,-8+j] - 360\,360\,j\,k^1\,\omega^2\,c[-6+k,-6+j] + \\
& 360\,360\,k\,k^1\,\omega^2\,c[-6+k,-6+j] + 1\,476\,034\,560\,j\,k^2\,\omega^2\,c[-6+k,-6+j] - \\
& 1\,476\,034\,560\,k\,k^2\,\omega^2\,c[-6+k,-6+j] - 4\,324\,320\,k^1\,\omega^4\,c[-6+k,-4+j] - \\
& 15\,135\,120\,j\,k^1\,\omega^4\,c[-6+k,-4+j] + 10\,810\,800\,k\,k^1\,\omega^4\,c[-6+k,-4+j] + \\
& 4\,428\,103\,680\,k^2\,\omega^4\,c[-6+k,-4+j] + 15\,498\,362\,880\,j\,k^2\,\omega^4\,c[-6+k,-4+j] - \\
& 11\,070\,259\,200\,k\,k^2\,\omega^4\,c[-6+k,-4+j] - 172\,972\,800\,k^1\,\omega^6\,c[-6+k,-2+j] - \\
& 302\,702\,400\,j\,k^1\,\omega^6\,c[-6+k,-2+j] + 129\,729\,600\,k\,k^1\,\omega^6\,c[-6+k,-2+j] + \\
& 44\,281\,036\,800\,k^2\,\omega^6\,c[-6+k,-2+j] + 77\,491\,814\,400\,j\,k^2\,\omega^6\,c[-6+k,-2+j] - \\
& 33\,210\,777\,600\,k\,k^2\,\omega^6\,c[-6+k,-2+j] - 1\,556\,755\,200\,k^1\,\omega^8\,c[-6+k,j] - \\
& 1\,816\,214\,400\,j\,k^1\,\omega^8\,c[-6+k,j] + 259\,459\,200\,k\,k^1\,\omega^8\,c[-6+k,j] + \\
& 99\,632\,332\,800\,k^2\,\omega^8\,c[-6+k,j] + 116\,237\,721\,600\,j\,k^2\,\omega^8\,c[-6+k,j] - \\
& 16\,605\,388\,800\,k\,k^2\,\omega^8\,c[-6+k,j] - 2002\,k^1\,c[-5+k,-9+j] + \\
& 3003\,j\,k^1\,c[-5+k,-9+j] - 5005\,k\,k^1\,c[-5+k,-9+j] + \\
& 32\,800\,768\,k^2\,c[-5+k,-9+j] - 49\,201\,152\,j\,k^2\,c[-5+k,-9+j] + \\
& 82\,001\,920\,k\,k^2\,c[-5+k,-9+j] - 90\,090\,k^1\,\omega^2\,c[-5+k,-7+j] + \\
& 270\,270\,j\,k^1\,\omega^2\,c[-5+k,-7+j] - 360\,360\,k\,k^1\,\omega^2\,c[-5+k,-7+j] + \\
& 369\,008\,640\,k^2\,\omega^2\,c[-5+k,-7+j] - 1\,107\,025\,920\,j\,k^2\,\omega^2\,c[-5+k,-7+j] + \\
& 1\,476\,034\,560\,k\,k^2\,\omega^2\,c[-5+k,-7+j] + 15\,135\,120\,j\,k^1\,\omega^4\,c[-5+k,-5+j] - \\
& 15\,135\,120\,k\,k^1\,\omega^4\,c[-5+k,-5+j] - 15\,498\,362\,880\,j\,k^2\,\omega^4\,c[-5+k,-5+j] + \\
& 15\,498\,362\,880\,k\,k^2\,\omega^4\,c[-5+k,-5+j] + 151\,351\,200\,k^1\,\omega^6\,c[-5+k,-3+j] + \\
& 454\,053\,600\,j\,k^1\,\omega^6\,c[-5+k,-3+j] - 302\,702\,400\,k\,k^1\,\omega^6\,c[-5+k,-3+j] - \\
& 38\,745\,907\,200\,k^2\,\omega^6\,c[-5+k,-3+j] - 116\,237\,721\,600\,j\,k^2\,\omega^6\,c[-5+k,-3+j] + \\
& 77\,491\,814\,400\,k\,k^2\,\omega^6\,c[-5+k,-3+j] + 3\,632\,428\,800\,k^1\,\omega^8\,c[-5+k,-1+j] + \\
& 5\,448\,643\,200\,j\,k^1\,\omega^8\,c[-5+k,-1+j] - 1\,816\,214\,400\,k\,k^1\,\omega^8\,c[-5+k,-1+j] - \\
& 232\,475\,443\,200\,k^2\,\omega^8\,c[-5+k,-1+j] - 348\,713\,164\,800\,j\,k^2\,\omega^8\,c[-5+k,-1+j] +
\end{aligned}$$

$$\begin{aligned}
& 116237721600k^2\omega^8c[-5+k,-1+j]+10897286400k^1\omega^{10}c[-5+k,1+j]+ \\
& 10897286400j^1k^1\omega^{10}c[-5+k,1+j]-174356582400k^2\omega^{10}c[-5+k,1+j]- \\
& 174356582400j^2k^2\omega^{10}c[-5+k,1+j]+1638k^1c[-4+k,-10+j]- \\
& 1365j^1k^1c[-4+k,-10+j]+3003k^1k^1c[-4+k,-10+j]- \\
& 26836992k^2c[-4+k,-10+j]+22364160j^2k^2c[-4+k,-10+j]- \\
& 49201152k^2c[-4+k,-10+j]+120120k^1\omega^2c[-4+k,-8+j]- \\
& 150150j^1k^1\omega^2c[-4+k,-8+j]+270270k^1k^1\omega^2c[-4+k,-8+j]- \\
& 492011520k^2\omega^2c[-4+k,-8+j]+615014400j^2k^2\omega^2c[-4+k,-8+j]- \\
& 1107025920k^2\omega^2c[-4+k,-8+j]+4324320k^1\omega^4c[-4+k,-6+j]- \\
& 10810800j^1k^1\omega^4c[-4+k,-6+j]+15135120k^1k^1\omega^4c[-4+k,-6+j]- \\
& 4428103680k^2\omega^4c[-4+k,-6+j]+11070259200j^2k^2\omega^4c[-4+k,-6+j]- \\
& 15498362880k^2\omega^4c[-4+k,-6+j]-454053600j^1k^1\omega^6c[-4+k,-4+j]+ \\
& 454053600k^1k^1\omega^6c[-4+k,-4+j]+116237721600j^2k^2\omega^6c[-4+k,-4+j]- \\
& 116237721600k^2\omega^6c[-4+k,-4+j]-3632428800k^1\omega^8c[-4+k,-2+j]- \\
& 9081072000j^1k^1\omega^8c[-4+k,-2+j]+5448643200k^1k^1\omega^8c[-4+k,-2+j]+ \\
& 232475443200k^2\omega^8c[-4+k,-2+j]+581188608000j^2k^2\omega^8c[-4+k,-2+j]- \\
& 348713164800k^2\omega^8c[-4+k,-2+j]-43589145600k^1\omega^{10}c[-4+k,j]- \\
& 54486432000j^1k^1\omega^{10}c[-4+k,j]+10897286400k^1k^1\omega^{10}c[-4+k,j]+ \\
& 697426329600k^2\omega^{10}c[-4+k,j]+871782912000j^2k^2\omega^{10}c[-4+k,j]- \\
& 174356582400k^2\omega^{10}c[-4+k,j]-910k^1c[-3+k,-11+j]+ \\
& 455j^1k^1c[-3+k,-11+j]-1365k^1k^1c[-3+k,-11+j]+ \\
& 14909440k^2c[-3+k,-11+j]-7454720j^2k^2c[-3+k,-11+j]+ \\
& 22364160k^2c[-3+k,-11+j]-90090k^1\omega^2c[-3+k,-9+j]+ \\
& 60060j^1k^1\omega^2c[-3+k,-9+j]-150150k^1k^1\omega^2c[-3+k,-9+j]+ \\
& 369008640k^2\omega^2c[-3+k,-9+j]-246005760j^2k^2\omega^2c[-3+k,-9+j]+ \\
& 615014400k^2\omega^2c[-3+k,-9+j]-5405400k^1\omega^4c[-3+k,-7+j]+ \\
& 5405400j^1k^1\omega^4c[-3+k,-7+j]-10810800k^1k^1\omega^4c[-3+k,-7+j]+ \\
& 5535129600k^2\omega^4c[-3+k,-7+j]-5535129600j^2k^2\omega^4c[-3+k,-7+j]+ \\
& 11070259200k^2\omega^4c[-3+k,-7+j]-151351200k^1\omega^6c[-3+k,-5+j]+ \\
& 302702400j^1k^1\omega^6c[-3+k,-5+j]-454053600k^1k^1\omega^6c[-3+k,-5+j]+ \\
& 38745907200k^2\omega^6c[-3+k,-5+j]-77491814400j^2k^2\omega^6c[-3+k,-5+j]+ \\
& 116237721600k^2\omega^6c[-3+k,-5+j]+9081072000j^1k^1\omega^8c[-3+k,-3+j]- \\
& 9081072000k^1k^1\omega^8c[-3+k,-3+j]-581188608000j^2k^2\omega^8c[-3+k,-3+j]+ \\
& 581188608000k^2\omega^8c[-3+k,-3+j]+54486432000k^1\omega^{10}c[-3+k,-1+j]+ \\
& 108972864000j^1k^1\omega^{10}c[-3+k,-1+j]-54486432000k^1k^1\omega^{10}c[-3+k,-1+j]- \\
& 871782912000k^2\omega^{10}c[-3+k,-1+j]-1743565824000j^2k^2\omega^{10}c[-3+k,-1+j]+ \\
& 871782912000k^2\omega^{10}c[-3+k,-1+j]+1307674368000b_{30}\omega^{12}c[-3+k,1+j]+ \\
& 1307674368000b_{30}j^1\omega^{12}c[-3+k,1+j]+217945728000k^1\omega^{12}c[-3+k,1+j]+ \\
& 217945728000j^1k^1\omega^{12}c[-3+k,1+j]-871782912000k^2\omega^{12}c[-3+k,1+j]- \\
& 871782912000j^2k^2\omega^{12}c[-3+k,1+j]+1307674368000i_{b21}\omega^{13}c[-3+k,1+j]+ \\
& 1307674368000i_{b21}j^1\omega^{13}c[-3+k,1+j]- \\
& 1307674368000b_{12}\omega^{14}c[-3+k,1+j]-1307674368000b_{12}j^1\omega^{14}c[-3+k,1+j]- \\
& 1307674368000i_{b03}\omega^{15}c[-3+k,1+j]- \\
& 1307674368000i_{b03}j^1\omega^{15}c[-3+k,1+j]+350k^1c[-2+k,-12+j]- \\
& 105j^1k^1c[-2+k,-12+j]+455k^1k^1c[-2+k,-12+j]- \\
& 5734400k^2c[-2+k,-12+j]+1720320j^2k^2c[-2+k,-12+j]- \\
& 7454720k^2c[-2+k,-12+j]+43680k^1\omega^2c[-2+k,-10+j]- \\
& 16380j^1k^1\omega^2c[-2+k,-10+j]+60060k^1k^1\omega^2c[-2+k,-10+j]-
\end{aligned}$$

$$\begin{aligned}
& 178\,913\,280\,k^2\,\omega^2\,c[-2+k, -10+j] + 67\,092\,480\,j\,k^2\,\omega^2\,c[-2+k, -10+j] - \\
& 246\,005\,760\,k\,k^2\,\omega^2\,c[-2+k, -10+j] + 3\,603\,600\,k^4\,c[-2+k, -8+j] - \\
& 1\,801\,800\,j\,k^4\,c[-2+k, -8+j] + 5\,405\,400\,k\,k^4\,c[-2+k, -8+j] - \\
& 3\,690\,086\,400\,k^2\,\omega^4\,c[-2+k, -8+j] + 1\,845\,043\,200\,j\,k^2\,\omega^4\,c[-2+k, -8+j] - \\
& 5\,535\,129\,600\,k\,k^2\,\omega^4\,c[-2+k, -8+j] + 172\,972\,800\,k^6\,c[-2+k, -6+j] - \\
& 129\,729\,600\,j\,k^6\,c[-2+k, -6+j] + 302\,702\,400\,k\,k^6\,c[-2+k, -6+j] - \\
& 44\,281\,036\,800\,k^2\,\omega^6\,c[-2+k, -6+j] + 33\,210\,777\,600\,j\,k^2\,\omega^6\,c[-2+k, -6+j] - \\
& 77\,491\,814\,400\,k\,k^2\,\omega^6\,c[-2+k, -6+j] + 3\,632\,428\,800\,k^8\,c[-2+k, -4+j] - \\
& 5\,448\,643\,200\,j\,k^8\,c[-2+k, -4+j] + 9\,081\,072\,000\,k\,k^8\,c[-2+k, -4+j] - \\
& 232\,475\,443\,200\,k^2\,\omega^8\,c[-2+k, -4+j] + 348\,713\,164\,800\,j\,k^2\,\omega^8\,c[-2+k, -4+j] - \\
& 581\,188\,608\,000\,k\,k^2\,\omega^8\,c[-2+k, -4+j] - 108\,972\,864\,000\,j\,k^1\,\omega^{10}\,c[-2+k, -2+j] + \\
& 108\,972\,864\,000\,k\,k^1\,\omega^{10}\,c[-2+k, -2+j] + 1\,743\,565\,824\,000\,j\,k^2 \\
& \omega^{10}\,c[-2+k, -2+j] - 1\,743\,565\,824\,000\,k\,k^2\,\omega^{10}\,c[-2+k, -2+j] - \\
& 2\,615\,348\,736\,000\,b_{30}\,\omega^{12}\,c[-2+k, j] - 3\,923\,023\,104\,000\,b_{30}\,j\,\omega^{12}\,c[-2+k, j] + \\
& 1\,307\,674\,368\,000\,b_{30}\,k\,\omega^{12}\,c[-2+k, j] - 435\,891\,456\,000\,k^1\,\omega^{12}\,c[-2+k, j] - \\
& 653\,837\,184\,000\,j\,k^1\,\omega^{12}\,c[-2+k, j] + 217\,945\,728\,000\,k\,k^1\,\omega^{12}\,c[-2+k, j] + \\
& 1\,743\,565\,824\,000\,k^2\,\omega^{12}\,c[-2+k, j] + 2\,615\,348\,736\,000\,j\,k^2\,\omega^{12}\,c[-2+k, j] - \\
& 871\,782\,912\,000\,k\,k^2\,\omega^{12}\,c[-2+k, j] - 2\,615\,348\,736\,000\,i\,b_{21}\,\omega^{13}\,c[-2+k, j] - \\
& 1\,307\,674\,368\,000\,i\,b_{21}\,j\,\omega^{13}\,c[-2+k, j] + 1\,307\,674\,368\,000\,i\,b_{21}\,k\,\omega^{13}\,c[-2+k, j] + \\
& 2\,615\,348\,736\,000\,b_{12}\,\omega^{14}\,c[-2+k, j] - 1\,307\,674\,368\,000\,b_{12}\,j\,\omega^{14}\,c[-2+k, j] - \\
& 1\,307\,674\,368\,000\,b_{12}\,k\,\omega^{14}\,c[-2+k, j] + 2\,615\,348\,736\,000\,i\,b_{03}\,\omega^{15}\,c[-2+k, j] - \\
& 3\,923\,023\,104\,000\,i\,b_{03}\,j\,\omega^{15}\,c[-2+k, j] - 1\,307\,674\,368\,000\,i\,b_{03}\,k\,\omega^{15}\,c[-2+k, j] - \\
& 90\,k^1\,c[-1+k, -13+j] + 15\,j\,k^1\,c[-1+k, -13+j] - 105\,k\,k^1\,c[-1+k, -13+j] + \\
& 1\,474\,560\,k^2\,c[-1+k, -13+j] - 245\,760\,j\,k^2\,c[-1+k, -13+j] + \\
& 1\,720\,320\,k\,k^2\,c[-1+k, -13+j] - 13\,650\,k^1\,\omega^2\,c[-1+k, -11+j] + \\
& 2\,730\,j\,k^1\,\omega^2\,c[-1+k, -11+j] - 16\,380\,k\,k^1\,\omega^2\,c[-1+k, -11+j] + \\
& 55\,910\,400\,k^2\,\omega^2\,c[-1+k, -11+j] - 11\,182\,080\,j\,k^2\,\omega^2\,c[-1+k, -11+j] + \\
& 67\,092\,480\,k\,k^2\,\omega^2\,c[-1+k, -11+j] - 1\,441\,440\,k^1\,\omega^4\,c[-1+k, -9+j] + \\
& 360\,360\,j\,k^1\,\omega^4\,c[-1+k, -9+j] - 1\,801\,800\,k\,k^1\,\omega^4\,c[-1+k, -9+j] + \\
& 1\,476\,034\,560\,k^2\,\omega^4\,c[-1+k, -9+j] - 369\,008\,640\,j\,k^2\,\omega^4\,c[-1+k, -9+j] + \\
& 1\,845\,043\,200\,k\,k^2\,\omega^4\,c[-1+k, -9+j] - 97\,297\,200\,k^1\,\omega^6\,c[-1+k, -7+j] + \\
& 32\,432\,400\,j\,k^1\,\omega^6\,c[-1+k, -7+j] - 129\,729\,600\,k\,k^1\,\omega^6\,c[-1+k, -7+j] + \\
& 24\,908\,083\,200\,k^2\,\omega^6\,c[-1+k, -7+j] - 8\,302\,694\,400\,j\,k^2\,\omega^6\,c[-1+k, -7+j] + \\
& 33\,210\,777\,600\,k\,k^2\,\omega^6\,c[-1+k, -7+j] - 3\,632\,428\,800\,k^1\,\omega^8\,c[-1+k, -5+j] + \\
& 1\,816\,214\,400\,j\,k^1\,\omega^8\,c[-1+k, -5+j] - 5\,448\,643\,200\,k\,k^1\,\omega^8\,c[-1+k, -5+j] + \\
& 232\,475\,443\,200\,k^2\,\omega^8\,c[-1+k, -5+j] - 116\,237\,721\,600\,j\,k^2\,\omega^8\,c[-1+k, -5+j] + \\
& 348\,713\,164\,800\,k\,k^2\,\omega^8\,c[-1+k, -5+j] - 54\,486\,432\,000\,k^1\,\omega^{10}\,c[-1+k, -3+j] + \\
& 54\,486\,432\,000\,j\,k^1\,\omega^{10}\,c[-1+k, -3+j] - 108\,972\,864\,000\,k\,k^1\,\omega^{10}\,c[-1+k, -3+j] + \\
& 871\,782\,912\,000\,k^2\,\omega^{10}\,c[-1+k, -3+j] - 871\,782\,912\,000\,j\,k^2\,\omega^{10}\,c[-1+k, -3+j] + \\
& 1\,743\,565\,824\,000\,k\,k^2\,\omega^{10}\,c[-1+k, -3+j] + 3\,923\,023\,104\,000\,b_{30}\,j \\
& \omega^{12}\,c[-1+k, -1+j] - 3\,923\,023\,104\,000\,b_{30}\,k\,\omega^{12}\,c[-1+k, -1+j] + \\
& 653\,837\,184\,000\,j\,k^1\,\omega^{12}\,c[-1+k, -1+j] - 653\,837\,184\,000\,k\,k^1\,\omega^{12}\,c[-1+k, -1+j] - \\
& 2\,615\,348\,736\,000\,j\,k^2\,\omega^{12}\,c[-1+k, -1+j] + 2\,615\,348\,736\,000\,k\,k^2 \\
& \omega^{12}\,c[-1+k, -1+j] + 2\,615\,348\,736\,000\,i\,b_{21}\,\omega^{13}\,c[-1+k, -1+j] - \\
& 1\,307\,674\,368\,000\,i\,b_{21}\,j\,\omega^{13}\,c[-1+k, -1+j] - 1\,307\,674\,368\,000\,i\,b_{21} \\
& k\,\omega^{13}\,c[-1+k, -1+j] + 1\,307\,674\,368\,000\,b_{12}\,j\,\omega^{14}\,c[-1+k, -1+j] - \\
& 1\,307\,674\,368\,000\,b_{12}\,k\,\omega^{14}\,c[-1+k, -1+j] + 7\,846\,046\,208\,000\,i\,b_{03}\,\omega^{15} \\
& c[-1+k, -1+j] - 3\,923\,023\,104\,000\,i\,b_{03}\,j\,\omega^{15}\,c[-1+k, -1+j] -
\end{aligned}$$

$$\begin{aligned}
& 3923023104000 \, i \, b03 \, k \, \omega^{15} \, c[-1+k, -1+j] + 14 \, k1 \, c[k, -14+j] - \\
& j \, k1 \, c[k, -14+j] + 15 \, k \, k1 \, c[k, -14+j] - 229376 \, k2 \, c[k, -14+j] + \\
& 16384 \, j \, k2 \, c[k, -14+j] - 245760 \, k \, k2 \, c[k, -14+j] + 2520 \, k1 \, \omega^2 \, c[k, -12+j] - \\
& 210 \, j \, k1 \, \omega^2 \, c[k, -12+j] + 2730 \, k \, k1 \, \omega^2 \, c[k, -12+j] - 10321920 \, k2 \, \omega^2 \, c[k, -12+j] + \\
& 860160 \, j \, k2 \, \omega^2 \, c[k, -12+j] - 11182080 \, k \, k2 \, \omega^2 \, c[k, -12+j] + \\
& 327600 \, k1 \, \omega^4 \, c[k, -10+j] - 32760 \, j \, k1 \, \omega^4 \, c[k, -10+j] + \\
& 360360 \, k \, k1 \, \omega^4 \, c[k, -10+j] - 335462400 \, k2 \, \omega^4 \, c[k, -10+j] + \\
& 33546240 \, j \, k2 \, \omega^4 \, c[k, -10+j] - 369008640 \, k \, k2 \, \omega^4 \, c[k, -10+j] + \\
& 28828800 \, k1 \, \omega^6 \, c[k, -8+j] - 3603600 \, j \, k1 \, \omega^6 \, c[k, -8+j] + \\
& 32432400 \, k \, k1 \, \omega^6 \, c[k, -8+j] - 7380172800 \, k2 \, \omega^6 \, c[k, -8+j] + \\
& 922521600 \, j \, k2 \, \omega^6 \, c[k, -8+j] - 8302694400 \, k \, k2 \, \omega^6 \, c[k, -8+j] + \\
& 1556755200 \, k1 \, \omega^8 \, c[k, -6+j] - 259459200 \, j \, k1 \, \omega^8 \, c[k, -6+j] + \\
& 1816214400 \, k \, k1 \, \omega^8 \, c[k, -6+j] - 99632332800 \, k2 \, \omega^8 \, c[k, -6+j] + \\
& 16605388800 \, j \, k2 \, \omega^8 \, c[k, -6+j] - 116237721600 \, k \, k2 \, \omega^8 \, c[k, -6+j] + \\
& 43589145600 \, k1 \, \omega^{10} \, c[k, -4+j] - 10897286400 \, j \, k1 \, \omega^{10} \, c[k, -4+j] + \\
& 54486432000 \, k \, k1 \, \omega^{10} \, c[k, -4+j] - 697426329600 \, k2 \, \omega^{10} \, c[k, -4+j] + \\
& 174356582400 \, j \, k2 \, \omega^{10} \, c[k, -4+j] - 871782912000 \, k \, k2 \, \omega^{10} \, c[k, -4+j] + \\
& 2615348736000 \, b30 \, \omega^{12} \, c[k, -2+j] - 1307674368000 \, b30 \, j \, \omega^{12} \, c[k, -2+j] + \\
& 3923023104000 \, b30 \, k \, \omega^{12} \, c[k, -2+j] + 435891456000 \, k1 \, \omega^{12} \, c[k, -2+j] - \\
& 217945728000 \, j \, k1 \, \omega^{12} \, c[k, -2+j] + 653837184000 \, k \, k1 \, \omega^{12} \, c[k, -2+j] - \\
& 1743565824000 \, k2 \, \omega^{12} \, c[k, -2+j] + 871782912000 \, j \, k2 \, \omega^{12} \, c[k, -2+j] - \\
& 2615348736000 \, k \, k2 \, \omega^{12} \, c[k, -2+j] - 2615348736000 \, i \, b21 \, \omega^{13} \, c[k, -2+j] + \\
& 1307674368000 \, i \, b21 \, j \, \omega^{13} \, c[k, -2+j] - 1307674368000 \, i \, b21 \, k \, \omega^{13} \, c[k, -2+j] - \\
& 2615348736000 \, b12 \, \omega^{14} \, c[k, -2+j] + 1307674368000 \, b12 \, j \, \omega^{14} \, c[k, -2+j] + \\
& 1307674368000 \, b12 \, k \, \omega^{14} \, c[k, -2+j] + 2615348736000 \, i \, b03 \, \omega^{15} \, c[k, -2+j] - \\
& 1307674368000 \, i \, b03 \, j \, \omega^{15} \, c[k, -2+j] - 3923023104000 \, i \, b03 \, k \, \omega^{15} \, c[k, -2+j] - \\
& k1 \, c[1+k, -15+j] - k \, k1 \, c[1+k, -15+j] + 16384 \, k2 \, c[1+k, -15+j] + \\
& 16384 \, k \, k2 \, c[1+k, -15+j] - 210 \, k1 \, \omega^2 \, c[1+k, -13+j] - \\
& 210 \, k \, k1 \, \omega^2 \, c[1+k, -13+j] + 860160 \, k2 \, \omega^2 \, c[1+k, -13+j] + \\
& 860160 \, k \, k2 \, \omega^2 \, c[1+k, -13+j] - 32760 \, k1 \, \omega^4 \, c[1+k, -11+j] - \\
& 32760 \, k \, k1 \, \omega^4 \, c[1+k, -11+j] + 33546240 \, k2 \, \omega^4 \, c[1+k, -11+j] + \\
& 33546240 \, k \, k2 \, \omega^4 \, c[1+k, -11+j] - 3603600 \, k1 \, \omega^6 \, c[1+k, -9+j] - \\
& 3603600 \, k \, k1 \, \omega^6 \, c[1+k, -9+j] + 922521600 \, k2 \, \omega^6 \, c[1+k, -9+j] + \\
& 922521600 \, k \, k2 \, \omega^6 \, c[1+k, -9+j] - 259459200 \, k1 \, \omega^8 \, c[1+k, -7+j] - \\
& 259459200 \, k \, k1 \, \omega^8 \, c[1+k, -7+j] + 16605388800 \, k2 \, \omega^8 \, c[1+k, -7+j] + \\
& 16605388800 \, k \, k2 \, \omega^8 \, c[1+k, -7+j] - 10897286400 \, k1 \, \omega^{10} \, c[1+k, -5+j] - \\
& 10897286400 \, k \, k1 \, \omega^{10} \, c[1+k, -5+j] + 174356582400 \, k2 \, \omega^{10} \, c[1+k, -5+j] + \\
& 174356582400 \, k \, k2 \, \omega^{10} \, c[1+k, -5+j] - 1307674368000 \, b30 \, \omega^{12} \, c[1+k, -3+j] - \\
& 1307674368000 \, b30 \, k \, \omega^{12} \, c[1+k, -3+j] - 217945728000 \, k1 \, \omega^{12} \, c[1+k, -3+j] - \\
& 217945728000 \, k \, k1 \, \omega^{12} \, c[1+k, -3+j] + 871782912000 \, k2 \, \omega^{12} \, c[1+k, -3+j] + \\
& 871782912000 \, k \, k2 \, \omega^{12} \, c[1+k, -3+j] + 1307674368000 \, i \, b21 \, \omega^{13} \, c[1+k, -3+j] + \\
& 1307674368000 \, i \, b21 \, k \, \omega^{13} \, c[1+k, -3+j] + \\
& 1307674368000 \, b12 \, \omega^{14} \, c[1+k, -3+j] + 1307674368000 \, b12 \, k \, \omega^{14} \, c[1+k, -3+j] - \\
& 1307674368000 \, i \, b03 \, \omega^{15} \, c[1+k, -3+j] - \\
& 1307674368000 \, i \, b03 \, k \, \omega^{15} \, c[1+k, -3+j] \Big) \Big]
\end{aligned}$$

$$u1[j] =$$

$$\text{Together} \left[\frac{1}{2\,615\,348\,736\,000\,\omega^{16}} \right. \\
(k_1 c[-15+j, 1+j] + j k_1 c[-15+j, 1+j] - 16\,384 k_2 c[-15+j, 1+j] - \\
16\,384 j k_2 c[-15+j, 1+j] - 14 k_1 c[-14+j, j] - 14 j k_1 c[-14+j, j] + \\
229\,376 k_2 c[-14+j, j] + 229\,376 j k_2 c[-14+j, j] + 90 k_1 c[-13+j, -1+j] + \\
90 j k_1 c[-13+j, -1+j] - 1\,474\,560 k_2 c[-13+j, -1+j] - \\
1\,474\,560 j k_2 c[-13+j, -1+j] + 210 k_1 \omega^2 c[-13+j, 1+j] + \\
210 j k_1 \omega^2 c[-13+j, 1+j] - 860\,160 k_2 \omega^2 c[-13+j, 1+j] - \\
860\,160 j k_2 \omega^2 c[-13+j, 1+j] - 350 k_1 c[-12+j, -2+j] - \\
350 j k_1 c[-12+j, -2+j] + 5\,734\,400 k_2 c[-12+j, -2+j] + \\
5\,734\,400 j k_2 c[-12+j, -2+j] - 2520 k_1 \omega^2 c[-12+j, j] - \\
2520 j k_1 \omega^2 c[-12+j, j] + 10\,321\,920 k_2 \omega^2 c[-12+j, j] + \\
10\,321\,920 j k_2 \omega^2 c[-12+j, j] + 910 k_1 c[-11+j, -3+j] + \\
910 j k_1 c[-11+j, -3+j] - 14\,909\,440 k_2 c[-11+j, -3+j] - \\
14\,909\,440 j k_2 c[-11+j, -3+j] + 13\,650 k_1 \omega^2 c[-11+j, -1+j] + \\
13\,650 j k_1 \omega^2 c[-11+j, -1+j] - 55\,910\,400 k_2 \omega^2 c[-11+j, -1+j] - \\
55\,910\,400 j k_2 \omega^2 c[-11+j, -1+j] + 32\,760 k_1 \omega^4 c[-11+j, 1+j] + \\
32\,760 j k_1 \omega^4 c[-11+j, 1+j] - 33\,546\,240 k_2 \omega^4 c[-11+j, 1+j] - \\
33\,546\,240 j k_2 \omega^4 c[-11+j, 1+j] - 1638 k_1 c[-10+j, -4+j] - \\
1638 j k_1 c[-10+j, -4+j] + 26\,836\,992 k_2 c[-10+j, -4+j] + \\
26\,836\,992 j k_2 c[-10+j, -4+j] - 43\,680 k_1 \omega^2 c[-10+j, -2+j] - \\
43\,680 j k_1 \omega^2 c[-10+j, -2+j] + 178\,913\,280 k_2 \omega^2 c[-10+j, -2+j] + \\
178\,913\,280 j k_2 \omega^2 c[-10+j, -2+j] - 327\,600 k_1 \omega^4 c[-10+j, j] - \\
327\,600 j k_1 \omega^4 c[-10+j, j] + 335\,462\,400 k_2 \omega^4 c[-10+j, j] + \\
335\,462\,400 j k_2 \omega^4 c[-10+j, j] + 2002 k_1 c[-9+j, -5+j] + \\
2002 j k_1 c[-9+j, -5+j] - 32\,800\,768 k_2 c[-9+j, -5+j] - \\
32\,800\,768 j k_2 c[-9+j, -5+j] + 90\,090 k_1 \omega^2 c[-9+j, -3+j] + \\
90\,090 j k_1 \omega^2 c[-9+j, -3+j] - 369\,008\,640 k_2 \omega^2 c[-9+j, -3+j] - \\
369\,008\,640 j k_2 \omega^2 c[-9+j, -3+j] + 1\,441\,440 k_1 \omega^4 c[-9+j, -1+j] + \\
1\,441\,440 j k_1 \omega^4 c[-9+j, -1+j] - 1\,476\,034\,560 k_2 \omega^4 c[-9+j, -1+j] - \\
1\,476\,034\,560 j k_2 \omega^4 c[-9+j, -1+j] + 3\,603\,600 k_1 \omega^6 c[-9+j, 1+j] + \\
3\,603\,600 j k_1 \omega^6 c[-9+j, 1+j] - 922\,521\,600 k_2 \omega^6 c[-9+j, 1+j] - \\
922\,521\,600 j k_2 \omega^6 c[-9+j, 1+j] - 1430 k_1 c[-8+j, -6+j] - \\
1430 j k_1 c[-8+j, -6+j] + 23\,429\,120 k_2 c[-8+j, -6+j] + \\
23\,429\,120 j k_2 c[-8+j, -6+j] - 120\,120 k_1 \omega^2 c[-8+j, -4+j] - \\
120\,120 j k_1 \omega^2 c[-8+j, -4+j] + 492\,011\,520 k_2 \omega^2 c[-8+j, -4+j] + \\
492\,011\,520 j k_2 \omega^2 c[-8+j, -4+j] - 3\,603\,600 k_1 \omega^4 c[-8+j, -2+j] - \\
3\,603\,600 j k_1 \omega^4 c[-8+j, -2+j] + 3\,690\,086\,400 k_2 \omega^4 c[-8+j, -2+j] + \\
3\,690\,086\,400 j k_2 \omega^4 c[-8+j, -2+j] - 28\,828\,800 k_1 \omega^6 c[-8+j, j] - \\
28\,828\,800 j k_1 \omega^6 c[-8+j, j] + 7\,380\,172\,800 k_2 \omega^6 c[-8+j, j] + \\
7\,380\,172\,800 j k_2 \omega^6 c[-8+j, j] + 90\,090 k_1 \omega^2 c[-7+j, -5+j] + \\
90\,090 j k_1 \omega^2 c[-7+j, -5+j] - 369\,008\,640 k_2 \omega^2 c[-7+j, -5+j] - \\
369\,008\,640 j k_2 \omega^2 c[-7+j, -5+j] + 5\,405\,400 k_1 \omega^4 c[-7+j, -3+j] + \\
5\,405\,400 j k_1 \omega^4 c[-7+j, -3+j] - 5\,535\,129\,600 k_2 \omega^4 c[-7+j, -3+j] - \\
5\,535\,129\,600 j k_2 \omega^4 c[-7+j, -3+j] + 97\,297\,200 k_1 \omega^6 c[-7+j, -1+j] + \\
97\,297\,200 j k_1 \omega^6 c[-7+j, -1+j] - 24\,908\,083\,200 k_2 \omega^6 c[-7+j, -1+j] - \\
24\,908\,083\,200 j k_2 \omega^6 c[-7+j, -1+j] + 259\,459\,200 k_1 \omega^8 c[-7+j, 1+j] + \\
259\,459\,200 j k_1 \omega^8 c[-7+j, 1+j] - 16\,605\,388\,800 k_2 \omega^8 c[-7+j, 1+j] - \\
\left. \right]$$

$$\begin{aligned}
& 16\,605\,388\,800\,j\,k_2\,\omega^8\,c[-7+j, 1+j] + 1430\,k_1\,c[-6+j, -8+j] + \\
& 1430\,j\,k_1\,c[-6+j, -8+j] - 23\,429\,120\,k_2\,c[-6+j, -8+j] - \\
& 23\,429\,120\,j\,k_2\,c[-6+j, -8+j] - 4\,324\,320\,k_1\,\omega^4\,c[-6+j, -4+j] - \\
& 4\,324\,320\,j\,k_1\,\omega^4\,c[-6+j, -4+j] + 4\,428\,103\,680\,k_2\,\omega^4\,c[-6+j, -4+j] + \\
& 4\,428\,103\,680\,j\,k_2\,\omega^4\,c[-6+j, -4+j] - 172\,972\,800\,k_1\,\omega^6\,c[-6+j, -2+j] - \\
& 172\,972\,800\,j\,k_1\,\omega^6\,c[-6+j, -2+j] + 44\,281\,036\,800\,k_2\,\omega^6\,c[-6+j, -2+j] + \\
& 44\,281\,036\,800\,j\,k_2\,\omega^6\,c[-6+j, -2+j] - 1\,556\,755\,200\,k_1\,\omega^8\,c[-6+j, j] - \\
& 1\,556\,755\,200\,j\,k_1\,\omega^8\,c[-6+j, j] + 99\,632\,332\,800\,k_2\,\omega^8\,c[-6+j, j] + \\
& 99\,632\,332\,800\,j\,k_2\,\omega^8\,c[-6+j, j] - 2002\,k_1\,c[-5+j, -9+j] - \\
& 2002\,j\,k_1\,c[-5+j, -9+j] + 32\,800\,768\,k_2\,c[-5+j, -9+j] + \\
& 32\,800\,768\,j\,k_2\,c[-5+j, -9+j] - 90\,090\,k_1\,\omega^2\,c[-5+j, -7+j] - \\
& 90\,090\,j\,k_1\,\omega^2\,c[-5+j, -7+j] + 369\,008\,640\,k_2\,\omega^2\,c[-5+j, -7+j] + \\
& 369\,008\,640\,j\,k_2\,\omega^2\,c[-5+j, -7+j] + 151\,351\,200\,k_1\,\omega^6\,c[-5+j, -3+j] + \\
& 151\,351\,200\,j\,k_1\,\omega^6\,c[-5+j, -3+j] - 38\,745\,907\,200\,k_2\,\omega^6\,c[-5+j, -3+j] - \\
& 38\,745\,907\,200\,j\,k_2\,\omega^6\,c[-5+j, -3+j] + 3\,632\,428\,800\,k_1\,\omega^8\,c[-5+j, -1+j] + \\
& 3\,632\,428\,800\,j\,k_1\,\omega^8\,c[-5+j, -1+j] - 232\,475\,443\,200\,k_2\,\omega^8\,c[-5+j, -1+j] - \\
& 232\,475\,443\,200\,j\,k_2\,\omega^8\,c[-5+j, -1+j] + 10\,897\,286\,400\,k_1\,\omega^{10}\,c[-5+j, 1+j] + \\
& 10\,897\,286\,400\,j\,k_1\,\omega^{10}\,c[-5+j, 1+j] - 174\,356\,582\,400\,k_2\,\omega^{10}\,c[-5+j, 1+j] - \\
& 174\,356\,582\,400\,j\,k_2\,\omega^{10}\,c[-5+j, 1+j] + 1638\,k_1\,c[-4+j, -10+j] + \\
& 1638\,j\,k_1\,c[-4+j, -10+j] - 26\,836\,992\,k_2\,c[-4+j, -10+j] - \\
& 26\,836\,992\,j\,k_2\,c[-4+j, -10+j] + 120\,120\,k_1\,\omega^2\,c[-4+j, -8+j] + \\
& 120\,120\,j\,k_1\,\omega^2\,c[-4+j, -8+j] - 492\,011\,520\,k_2\,\omega^2\,c[-4+j, -8+j] - \\
& 492\,011\,520\,j\,k_2\,\omega^2\,c[-4+j, -8+j] + 4\,324\,320\,k_1\,\omega^4\,c[-4+j, -6+j] + \\
& 4\,324\,320\,j\,k_1\,\omega^4\,c[-4+j, -6+j] - 4\,428\,103\,680\,k_2\,\omega^4\,c[-4+j, -6+j] - \\
& 4\,428\,103\,680\,j\,k_2\,\omega^4\,c[-4+j, -6+j] - 3\,632\,428\,800\,k_1\,\omega^8\,c[-4+j, -2+j] - \\
& 3\,632\,428\,800\,j\,k_1\,\omega^8\,c[-4+j, -2+j] + 232\,475\,443\,200\,k_2\,\omega^8\,c[-4+j, -2+j] + \\
& 232\,475\,443\,200\,j\,k_2\,\omega^8\,c[-4+j, -2+j] - 43\,589\,145\,600\,k_1\,\omega^{10}\,c[-4+j, j] - \\
& 43\,589\,145\,600\,j\,k_1\,\omega^{10}\,c[-4+j, j] + 697\,426\,329\,600\,k_2\,\omega^{10}\,c[-4+j, j] + \\
& 697\,426\,329\,600\,j\,k_2\,\omega^{10}\,c[-4+j, j] - 910\,k_1\,c[-3+j, -11+j] - \\
& 910\,j\,k_1\,c[-3+j, -11+j] + 14\,909\,440\,k_2\,c[-3+j, -11+j] + \\
& 14\,909\,440\,j\,k_2\,c[-3+j, -11+j] - 90\,090\,k_1\,\omega^2\,c[-3+j, -9+j] - \\
& 90\,090\,j\,k_1\,\omega^2\,c[-3+j, -9+j] + 369\,008\,640\,k_2\,\omega^2\,c[-3+j, -9+j] + \\
& 369\,008\,640\,j\,k_2\,\omega^2\,c[-3+j, -9+j] - 5\,405\,400\,k_1\,\omega^4\,c[-3+j, -7+j] - \\
& 5\,405\,400\,j\,k_1\,\omega^4\,c[-3+j, -7+j] + 5\,535\,129\,600\,k_2\,\omega^4\,c[-3+j, -7+j] + \\
& 5\,535\,129\,600\,j\,k_2\,\omega^4\,c[-3+j, -7+j] - 151\,351\,200\,k_1\,\omega^6\,c[-3+j, -5+j] - \\
& 151\,351\,200\,j\,k_1\,\omega^6\,c[-3+j, -5+j] + 38\,745\,907\,200\,k_2\,\omega^6\,c[-3+j, -5+j] + \\
& 38\,745\,907\,200\,j\,k_2\,\omega^6\,c[-3+j, -5+j] + 54\,486\,432\,000\,k_1\,\omega^{10}\,c[-3+j, -1+j] + \\
& 54\,486\,432\,000\,j\,k_1\,\omega^{10}\,c[-3+j, -1+j] - 871\,782\,912\,000\,k_2\,\omega^{10}\,c[-3+j, -1+j] - \\
& 871\,782\,912\,000\,j\,k_2\,\omega^{10}\,c[-3+j, -1+j] + 1\,307\,674\,368\,000\,b_{30}\,\omega^{12}\,c[-3+j, 1+j] + \\
& 1\,307\,674\,368\,000\,b_{30}\,j\,\omega^{12}\,c[-3+j, 1+j] + 217\,945\,728\,000\,k_1\,\omega^{12}\,c[-3+j, 1+j] + \\
& 217\,945\,728\,000\,j\,k_1\,\omega^{12}\,c[-3+j, 1+j] - 871\,782\,912\,000\,k_2\,\omega^{12}\,c[-3+j, 1+j] - \\
& 871\,782\,912\,000\,j\,k_2\,\omega^{12}\,c[-3+j, 1+j] + 1\,307\,674\,368\,000\,i\,b_{21}\,\omega^{13}\,c[-3+j, 1+j] + \\
& 1\,307\,674\,368\,000\,i\,b_{21}\,j\,\omega^{13}\,c[-3+j, 1+j] - \\
& 1\,307\,674\,368\,000\,b_{12}\,\omega^{14}\,c[-3+j, 1+j] - 1\,307\,674\,368\,000\,b_{12}\,j\,\omega^{14}\,c[-3+j, 1+j] - \\
& 1\,307\,674\,368\,000\,i\,b_{03}\,\omega^{15}\,c[-3+j, 1+j] - \\
& 1\,307\,674\,368\,000\,i\,b_{03}\,j\,\omega^{15}\,c[-3+j, 1+j] + 350\,k_1\,c[-2+j, -12+j] + \\
& 350\,j\,k_1\,c[-2+j, -12+j] - 5\,734\,400\,k_2\,c[-2+j, -12+j] - \\
& 5\,734\,400\,j\,k_2\,c[-2+j, -12+j] + 43\,680\,k_1\,\omega^2\,c[-2+j, -10+j] +
\end{aligned}$$

$$\begin{aligned}
& 43\,680\,j\,k_1\,\omega^2\,c[-2+j, -10+j] - 178\,913\,280\,k_2\,\omega^2\,c[-2+j, -10+j] - \\
& 178\,913\,280\,j\,k_2\,\omega^2\,c[-2+j, -10+j] + 3\,603\,600\,k_1\,\omega^4\,c[-2+j, -8+j] + \\
& 3\,603\,600\,j\,k_1\,\omega^4\,c[-2+j, -8+j] - 3\,690\,086\,400\,k_2\,\omega^4\,c[-2+j, -8+j] - \\
& 3\,690\,086\,400\,j\,k_2\,\omega^4\,c[-2+j, -8+j] + 172\,972\,800\,k_1\,\omega^6\,c[-2+j, -6+j] + \\
& 172\,972\,800\,j\,k_1\,\omega^6\,c[-2+j, -6+j] - 44\,281\,036\,800\,k_2\,\omega^6\,c[-2+j, -6+j] - \\
& 44\,281\,036\,800\,j\,k_2\,\omega^6\,c[-2+j, -6+j] + 3\,632\,428\,800\,k_1\,\omega^8\,c[-2+j, -4+j] + \\
& 3\,632\,428\,800\,j\,k_1\,\omega^8\,c[-2+j, -4+j] - 232\,475\,443\,200\,k_2\,\omega^8\,c[-2+j, -4+j] - \\
& 232\,475\,443\,200\,j\,k_2\,\omega^8\,c[-2+j, -4+j] - 2\,615\,348\,736\,000\,b_{30}\,\omega^{12}\,c[-2+j, j] - \\
& 2\,615\,348\,736\,000\,b_{30}\,j\,\omega^{12}\,c[-2+j, j] - 435\,891\,456\,000\,k_1\,\omega^{12}\,c[-2+j, j] - \\
& 435\,891\,456\,000\,j\,k_1\,\omega^{12}\,c[-2+j, j] + 1\,743\,565\,824\,000\,k_2\,\omega^{12}\,c[-2+j, j] + \\
& 1\,743\,565\,824\,000\,j\,k_2\,\omega^{12}\,c[-2+j, j] - 2\,615\,348\,736\,000\,i\,b_{21}\,\omega^{13}\,c[-2+j, j] + \\
& 2\,615\,348\,736\,000\,b_{12}\,\omega^{14}\,c[-2+j, j] - 2\,615\,348\,736\,000\,b_{12}\,j\,\omega^{14}\,c[-2+j, j] + \\
& 2\,615\,348\,736\,000\,i\,b_{03}\,\omega^{15}\,c[-2+j, j] - 5\,230\,697\,472\,000\,i\,b_{03}\,j\,\omega^{15}\,c[-2+j, j] - \\
& 90\,k_1\,c[-1+j, -13+j] - 90\,j\,k_1\,c[-1+j, -13+j] + \\
& 1\,474\,560\,k_2\,c[-1+j, -13+j] + 1\,474\,560\,j\,k_2\,c[-1+j, -13+j] - \\
& 13\,650\,k_1\,\omega^2\,c[-1+j, -11+j] - 13\,650\,j\,k_1\,\omega^2\,c[-1+j, -11+j] + \\
& 55\,910\,400\,k_2\,\omega^2\,c[-1+j, -11+j] + 55\,910\,400\,j\,k_2\,\omega^2\,c[-1+j, -11+j] - \\
& 1\,441\,440\,k_1\,\omega^4\,c[-1+j, -9+j] - 1\,441\,440\,j\,k_1\,\omega^4\,c[-1+j, -9+j] + \\
& 1\,476\,034\,560\,k_2\,\omega^4\,c[-1+j, -9+j] + 1\,476\,034\,560\,j\,k_2\,\omega^4\,c[-1+j, -9+j] - \\
& 97\,297\,200\,k_1\,\omega^6\,c[-1+j, -7+j] - 97\,297\,200\,j\,k_1\,\omega^6\,c[-1+j, -7+j] + \\
& 24\,908\,083\,200\,k_2\,\omega^6\,c[-1+j, -7+j] + 24\,908\,083\,200\,j\,k_2\,\omega^6\,c[-1+j, -7+j] - \\
& 3\,632\,428\,800\,k_1\,\omega^8\,c[-1+j, -5+j] - 3\,632\,428\,800\,j\,k_1\,\omega^8\,c[-1+j, -5+j] + \\
& 232\,475\,443\,200\,k_2\,\omega^8\,c[-1+j, -5+j] + 232\,475\,443\,200\,j\,k_2\,\omega^8\,c[-1+j, -5+j] - \\
& 54\,486\,432\,000\,k_1\,\omega^{10}\,c[-1+j, -3+j] - 54\,486\,432\,000\,j\,k_1\,\omega^{10}\,c[-1+j, -3+j] + \\
& 871\,782\,912\,000\,k_2\,\omega^{10}\,c[-1+j, -3+j] + 871\,782\,912\,000\,j\,k_2\,\omega^{10}\,c[-1+j, -3+j] + \\
& 2\,615\,348\,736\,000\,i\,b_{21}\,\omega^{13}\,c[-1+j, -1+j] - 2\,615\,348\,736\,000\,i\,b_{21}\, \\
& \quad j\,\omega^{13}\,c[-1+j, -1+j] + 7\,846\,046\,208\,000\,i\,b_{03}\,\omega^{15}\,c[-1+j, -1+j] - \\
& 7\,846\,046\,208\,000\,i\,b_{03}\,j\,\omega^{15}\,c[-1+j, -1+j] + 14\,k_1\,c[j, -14+j] + \\
& 14\,j\,k_1\,c[j, -14+j] - 229\,376\,k_2\,c[j, -14+j] - 229\,376\,j\,k_2\,c[j, -14+j] + \\
& 2520\,k_1\,\omega^2\,c[j, -12+j] + 2520\,j\,k_1\,\omega^2\,c[j, -12+j] - 10\,321\,920\,k_2\,\omega^2\,c[j, -12+j] - \\
& 10\,321\,920\,j\,k_2\,\omega^2\,c[j, -12+j] + 327\,600\,k_1\,\omega^4\,c[j, -10+j] + \\
& 327\,600\,j\,k_1\,\omega^4\,c[j, -10+j] - 335\,462\,400\,k_2\,\omega^4\,c[j, -10+j] - \\
& 335\,462\,400\,j\,k_2\,\omega^4\,c[j, -10+j] + 28\,828\,800\,k_1\,\omega^6\,c[j, -8+j] + \\
& 28\,828\,800\,j\,k_1\,\omega^6\,c[j, -8+j] - 7\,380\,172\,800\,k_2\,\omega^6\,c[j, -8+j] - \\
& 7\,380\,172\,800\,j\,k_2\,\omega^6\,c[j, -8+j] + 1\,556\,755\,200\,k_1\,\omega^8\,c[j, -6+j] + \\
& 1\,556\,755\,200\,j\,k_1\,\omega^8\,c[j, -6+j] - 99\,632\,332\,800\,k_2\,\omega^8\,c[j, -6+j] - \\
& 99\,632\,332\,800\,j\,k_2\,\omega^8\,c[j, -6+j] + 43\,589\,145\,600\,k_1\,\omega^{10}\,c[j, -4+j] + \\
& 43\,589\,145\,600\,j\,k_1\,\omega^{10}\,c[j, -4+j] - 697\,426\,329\,600\,k_2\,\omega^{10}\,c[j, -4+j] - \\
& 697\,426\,329\,600\,j\,k_2\,\omega^{10}\,c[j, -4+j] + 2\,615\,348\,736\,000\,b_{30}\,\omega^{12}\,c[j, -2+j] + \\
& 2\,615\,348\,736\,000\,b_{30}\,j\,\omega^{12}\,c[j, -2+j] + 435\,891\,456\,000\,k_1\,\omega^{12}\,c[j, -2+j] + \\
& 435\,891\,456\,000\,j\,k_1\,\omega^{12}\,c[j, -2+j] - 1\,743\,565\,824\,000\,k_2\,\omega^{12}\,c[j, -2+j] - \\
& 1\,743\,565\,824\,000\,j\,k_2\,\omega^{12}\,c[j, -2+j] - 2\,615\,348\,736\,000\,i\,b_{21}\,\omega^{13}\,c[j, -2+j] - \\
& 2\,615\,348\,736\,000\,b_{12}\,\omega^{14}\,c[j, -2+j] + 2\,615\,348\,736\,000\,b_{12}\,j\,\omega^{14}\,c[j, -2+j] + \\
& 2\,615\,348\,736\,000\,i\,b_{03}\,\omega^{15}\,c[j, -2+j] - 5\,230\,697\,472\,000\,i\,b_{03}\,j\,\omega^{15}\,c[j, -2+j] - \\
& k_1\,c[1+j, -15+j] - j\,k_1\,c[1+j, -15+j] + 16\,384\,k_2\,c[1+j, -15+j] + \\
& 16\,384\,j\,k_2\,c[1+j, -15+j] - 210\,k_1\,\omega^2\,c[1+j, -13+j] - \\
& 210\,j\,k_1\,\omega^2\,c[1+j, -13+j] + 860\,160\,k_2\,\omega^2\,c[1+j, -13+j] + \\
& 860\,160\,j\,k_2\,\omega^2\,c[1+j, -13+j] - 32\,760\,k_1\,\omega^4\,c[1+j, -11+j] -
\end{aligned}$$

$$\begin{aligned}
& 32\,760\,j\,k_1\,\omega^4\,c[1+j,-11+j] + 33\,546\,240\,k_2\,\omega^4\,c[1+j,-11+j] + \\
& 33\,546\,240\,j\,k_2\,\omega^4\,c[1+j,-11+j] - 3\,603\,600\,k_1\,\omega^6\,c[1+j,-9+j] - \\
& 3\,603\,600\,j\,k_1\,\omega^6\,c[1+j,-9+j] + 922\,521\,600\,k_2\,\omega^6\,c[1+j,-9+j] + \\
& 922\,521\,600\,j\,k_2\,\omega^6\,c[1+j,-9+j] - 259\,459\,200\,k_1\,\omega^8\,c[1+j,-7+j] - \\
& 259\,459\,200\,j\,k_1\,\omega^8\,c[1+j,-7+j] + 16\,605\,388\,800\,k_2\,\omega^8\,c[1+j,-7+j] + \\
& 16\,605\,388\,800\,j\,k_2\,\omega^8\,c[1+j,-7+j] - 10\,897\,286\,400\,k_1\,\omega^{10}\,c[1+j,-5+j] - \\
& 10\,897\,286\,400\,j\,k_1\,\omega^{10}\,c[1+j,-5+j] + 174\,356\,582\,400\,k_2\,\omega^{10}\,c[1+j,-5+j] + \\
& 174\,356\,582\,400\,j\,k_2\,\omega^{10}\,c[1+j,-5+j] - 1\,307\,674\,368\,000\,b_{30}\,\omega^{12}\,c[1+j,-3+j] - \\
& 1\,307\,674\,368\,000\,b_{30}\,j\,\omega^{12}\,c[1+j,-3+j] - 217\,945\,728\,000\,k_1\,\omega^{12}\,c[1+j,-3+j] - \\
& 217\,945\,728\,000\,j\,k_1\,\omega^{12}\,c[1+j,-3+j] + 871\,782\,912\,000\,k_2\,\omega^{12}\,c[1+j,-3+j] + \\
& 871\,782\,912\,000\,j\,k_2\,\omega^{12}\,c[1+j,-3+j] + 1\,307\,674\,368\,000\,i\,b_{21}\,\omega^{13}\,c[1+j,-3+j] + \\
& 1\,307\,674\,368\,000\,i\,b_{21}\,j\,\omega^{13}\,c[1+j,-3+j] + \\
& 1\,307\,674\,368\,000\,b_{12}\,\omega^{14}\,c[1+j,-3+j] + 1\,307\,674\,368\,000\,b_{12}\,j\,\omega^{14}\,c[1+j,-3+j] - \\
& 1\,307\,674\,368\,000\,i\,b_{03}\,\omega^{15}\,c[1+j,-3+j] - \\
& 1\,307\,674\,368\,000\,i\,b_{03}\,j\,\omega^{15}\,c[1+j,-3+j]) \Big]
\end{aligned}$$