```
c[m, n] = Together
   2 \left(-71582720 \text{ c}[-22+\text{m}, 2+\text{n}] - 71582720 (1+\text{n}) \text{ c}[-22+\text{m}, 2+\text{n}] - 71582720 \right)
           sc[-22+m, 2+n] - 71582720(1+n)sc[-22+m, 2+n] +
          939520512 ec[-20+m, 2+n] + 939520512 e(1+n)c[-20+m, 2+n] +
          939520512 esc[-20+m, 2+n] + 939520512 e(1+n) sc[-20+m, 2+n] -
          10\,041\,010\,560\,e^2\,c[-18+m,\,2+n]-10\,041\,010\,560\,e^2\,(1+n)\,c[-18+m,\,2+n]-10\,041\,010\,560\,e^2\,c[-18+m,\,2+n]
          10\,041\,010\,560\,e^2\,s\,c\,[-18+m,\,2+n]\,-10\,041\,010\,560\,e^2\,(1+n)\,s\,c\,[-18+m,\,2+n]\,+
          85344682752e^{3}c[-16+m, 2+n]+85344682752e^{3}(1+n)c[-16+m, 2+n]+
          85\,344\,682\,752\,e^3\,s\,c\,[\,-16+m,\,2+n\,]\,+\,85\,344\,682\,752\,e^3\,\,(1+n)\,\,s\,c\,[\,-16+m,\,2+n\,]\,-\,16
          559\,971\,921\,600\,e^4\,c\,[-14+m,\,2+n]\,-559\,971\,921\,600\,e^4\,(1+n)\,c\,[-14+m,\,2+n]\,-
          559\,971\,921\,600\,e^4\,s\,c\,[-14+m,\,2+n]\,-559\,971\,921\,600\,e^4\,(1+n)\,s
           \texttt{c}\left[-14+\texttt{m},\ 2+\texttt{n}\right] + 2\ 727\ 863\ 218\ 080\ \texttt{e}^5\ \texttt{c}\left[-12+\texttt{m},\ 2+\texttt{n}\right] + 2\ 727\ 863\ 218\ 080
           e^{5} (1+n) c[-12+m, 2+n] + 2727863218080 e^{5} sc[-12+m, 2+n] +
          2727863218080e^{5}(1+n)sc[-12+m, 2+n]-9349531191000e^{6}
           c[-10+m, 2+n] - 9349531191000 e^{6} (1+n) c[-10+m, 2+n] -
          9\,349\,531\,191\,000\,e^6\,s\,c\,[-10+m,\,2+n]\,-\,9\,349\,531\,191\,000\,e^6\,\,(1+n)\,s
           c[-10+m, 2+n] + 20788957589400 e^{7} c[-8+m, 2+n] + 20788957589400
           e^{7} (1+n) c[-8+m, 2+n] + 20788957589400 e^{7} sc[-8+m, 2+n] +
          20788957589400e^{7}(1+n)sc[-8+m, 2+n]-25986196986750e^{8}
           c[-6+m, 2+n] - 25986196986750 e^{8} (1+n) c[-6+m, 2+n] -
          25986196986750 e^8 sc[-6+m, 2+n] - 25986196986750 e^8 (1+n) s
           c[-6+m, 2+n] - 103944787947000\sqrt{2} b40 e^{15/2} c[-5+m, 2+n] -
          103 944 787 947 000 \sqrt{2} b40 e^{15/2} (1 + n) c[-5 + m, 2 + n] -
          103 944 787 947 000 \sqrt{2} b40 e^{15/2} s c [-5+m, 2+n] -
          103944787947000\sqrt{2} b40 e<sup>15/2</sup> (1+n) sc[-5+m, 2+n] +
          103\,944\,787\,947\,000\,\sqrt{2}\,b31\,e^{15/2}\,c\,[-4+m,\,1+n]
          103 944 787 947 000 \sqrt{2} b31 e^{15/2} (1 + n) c[-4 + m, 1 + n] -
          103 944 787 947 000 \sqrt{2} b31 e<sup>15/2</sup> (1+n) sc[-4+m, 1+n] +
          12993098493375e^{9}c[-4+m, 2+n]+12993098493375e^{9}
           (1+n) c[-4+m, 2+n] + 12 993 098 493 375 e^9 s c[-4+m, 2+n] +
          12 993 098 493 375 e^9 (1+n) sc[-4+m, 2+n] + 311 834 363 841 000 <math>\sqrt{2} b22
           e^{15/2} c[-3+m, n] - 103944787947000 \sqrt{2} b22 e^{15/2} (1+n) c[-3+m, n] +
          103\,944\,787\,947\,000\,\sqrt{2}\,b22\,e^{15/2}\,s\,c\,[-3+m,\,n]\,-103\,944\,787\,947\,000\,\sqrt{2}
           b22 e^{15/2} (1+n) sc[-3+m, n] + 51 972 393 973 500 b21 e^8 c[-3+m, 1+n] -
          51\,972\,393\,973\,500\,b21\,e^{8}\,(1+n)\,c[-3+m,\,1+n]\,-51\,972\,393\,973\,500\,b21\,e^{8}
           (1+n) sc[-3+m, 1+n] + 519723939735000\sqrt{2} b13 e<sup>15/2</sup> c[-2+m, -1+n] -
          103944787947000\sqrt{2} b13 e<sup>15/2</sup> (1+n) c[-2+m, -1+n] +
          207889575894000\sqrt{2} b13 e<sup>15/2</sup> s c[-2+m, -1+n] -
          103\,944\,787\,947\,000\,\sqrt{2}\, b13 e<sup>15/2</sup> (1+n) sc[-2+m, -1+n] +155 917 181 920 500
           b12 e^{8} c[-2+m, n] - 51 972 393 973 500 b12 e^{8} (1+n) c[-2+m, n] +
          51\,972\,393\,973\,500\,b12\,e^8\,s\,c[-2+m,\,n]-51\,972\,393\,973\,500\,b12\,e^8\,(1+n)
           sc[-2+m, n] + 727613515629000\sqrt{2}b04e^{15/2}c[-1+m, -2+n] -
          103 944 787 947 000 \sqrt{2} b04 e^{15/2} (1 + n) c[-1 + m, -2 + n] +
          311 834 363 841 000 \sqrt{2} b04 e^{15/2} s c[-1+m, -2+n] -
          103 944 787 947 000 \sqrt{2} b04 e^{15/2} (1 + n) sc[-1 + m, -2 + n] +
```

```
259861969867500b03e^{8}c[-1+m, -1+n] - 51972393973500b03e^{8}
            (1+n) c[-1+m, -1+n] + 103 944 787 947 000 b03 e<sup>8</sup> s c[-1+m, -1+n] -
          51 972 393 973 500 b03 e^{8} (1 + n) sc[-1+m, -1+n] + 38 979 295 480 125 \sqrt{2}
           b02 e^{17/2} c[-1+m, n] - 12993098493375 \sqrt{2} b02 e^{17/2} (1+n) c[-1+m, n] +
          12 993 098 493 375 \sqrt{2} b02 e^{17/2} s c[-1+m, n] - 12 993 098 493 375 \sqrt{2}
            \  \, b02 \, e^{17/2} \, \, (1+n) \, \, s \, c \, [\, -1+m \, , \, \, n \, ] \, \Big) \, \Big/ \, \, \Big( 12 \, 993 \, 098 \, 493 \, 375 \, e^9 \, m \, \, (1+s) \, \big) \, \Big] 
u1[k] =
 Together \left[\frac{1}{12\,993\,098\,493\,375\,e^9}\right] \left(-143\,165\,440\,c\,[-21+k,\,1]-143\,165\,440\,s\,c\,[-21+k,\,1]+12\,993\,098\,493\,375\,e^9\right)
       1879041024 ec[-19+k, 1] + 1879041024 esc[-19+k, 1] -
       20\,082\,021\,120\,e^2\,c[-17+k,\,1]-20\,082\,021\,120\,e^2\,s\,c[-17+k,\,1]+
       170689365504 e^{3} c[-15+k, 1] + 170689365504 e^{3} sc[-15+k, 1] -
       1119943843200 e^{4} c[-13+k, 1] - 1119943843200 e^{4} sc[-13+k, 1] +
       5455726436160 e^{5} c[-11+k, 1] + 5455726436160 e^{5} sc[-11+k, 1] -
       18699062382000 e^{6} c[-9+k, 1] - 18699062382000 e^{6} sc[-9+k, 1] +
       41577915178800 e^{7} c[-7+k, 1] + 41577915178800 e^{7} sc[-7+k, 1] -
       51\,972\,393\,973\,500\,e^8\,c[-5+k,\,1]-51\,972\,393\,973\,500\,e^8\,s\,c[-5+k,\,1]-
       207 889 575 894 000 \sqrt{2} b40 e^{15/2} c[-4+k, 1] -
       207 889 575 894 000 \sqrt{2} b40 e^{15/2} s c [-4 + k, 1] +
       207889575894000\sqrt{2} b31 e<sup>15/2</sup> c[-3+k, 0] + 25986196986750 e<sup>9</sup> c[-3+k, 1] +
       25 986 196 986 750 e^9 s c[-3+k, 1] + 623 668 727 682 000 \sqrt{2} b22 e^{15/2} c[-2+k, -1] +
       207 889 575 894 000 \sqrt{2} b22 e^{15/2} s c [-2+k, -1] +
       103 944 787 947 000 b21 e^8 c[-2+k, 0] + 1039 447 879 470 000 \sqrt{2} b13
         e^{15/2} c[-1+k, -2] + 415779151788000\sqrt{2} b13 e^{15/2} s c[-1+k, -2] +
       311834363841000b12e^{8}c[-1+k, -1] + 103944787947000b12e^{8}sc[-1+k, -1] +
       1455227031258000\sqrt{2} b04 e<sup>15/2</sup> c[k, -3] +
       623 668 727 682 000 \sqrt{2} b04 e^{15/2} s c[k, -3] + 519 723 939 735 000 b03 e^{8} c[k, -2] +
       207 889 575 894 000 b03 e^8 s c[k, -2] + 77 958 590 960 250 \sqrt{2} b02 e^{17/2} c[k, -1] +
       25 986 196 986 750 \sqrt{2} b02 e^{17/2} s c[k, -1] -
       12\,993\,098\,493\,375\,e^{9}\,c[1+k,\,-1]-12\,993\,098\,493\,375\,e^{9}\,k\,c[1+k,\,-1]-12\,993\,098\,493\,375\,e^{9}\,k\,c[1+k,\,-1]
       12 993 098 493 375 e^9 sc[1+k, -1] - 12 993 098 493 375 <math>e^9 ksc[1+k, -1]
```