

$$\int U + \frac{U}{2} + \frac{U^1}{12} - \frac{U^{11}}{6!} + \frac{U^{[5]}}{6(7!)} - \frac{3U^{[2]}}{10!} + \frac{10U^{[9]}}{12!} - \frac{691U^{[11]}}{210(13!)} + \frac{U^{[13]}}{12 \cdot 13!} - \frac{U^{[15]} 1085}{5(18!)} + \frac{438670 U^{[17]}}{21!} \\ - \frac{12222770 U^{[19]}}{110(21!)} + \frac{854513 U^{[21]}}{138(22!)} - \frac{1181820455 U^{[23]}}{21(26!)}$$

$$\sum 1 = x$$

$$\sum x = (x^2 + x)/2$$

$$\sum x^2 = \frac{x^3}{3} + \frac{x^2}{2} + \frac{x}{6}$$

$$\sum x^3 = \frac{x^4}{4} + \frac{x^3}{2} + \frac{x^2}{4}$$

$$\sum x^4 = \frac{x^5}{5} + \frac{x^4}{2} + \frac{x^3}{3} - \frac{x}{30}$$

$$\sum x^5 = \frac{x^6}{6} + \frac{x^5}{2} + \frac{5x^4}{12} - \frac{x^2}{12}$$

$$\sum x^6 = \frac{x^7}{7} + \frac{x^6}{2} + \frac{x^5}{2} - \frac{x^3}{6} + \frac{x}{42}$$

$$\sum x^7 = \frac{x^8}{8} + \frac{x^7}{2} + \frac{7x^6}{12} - \frac{7x^4}{24} + \frac{x^2}{12}$$

$$\sum x^8 = \frac{x^9}{9} + \frac{x^8}{2} + \frac{x^7}{3} - \frac{336x^5}{6!} + \frac{2x^3}{9} - \frac{x}{30}$$

$$\sum x^9 = \frac{x^{10}}{10} + \frac{x^9}{2} + \frac{3x^8}{4} - \frac{504x^6}{6!} + \frac{x^4}{2} - \frac{3x^2}{20}$$

$$\sum x^{10} = \frac{x^{11}}{11} + \frac{x^{10}}{2} + \frac{5x^9}{6} - \frac{720x^7}{6!} + x^5 - \frac{x^3}{2} + \frac{5x}{66}$$

$$\sum x^{11} = \frac{x^{12}}{12} + \frac{x^{11}}{2} + \frac{11x^{10}}{12} - \frac{11x^8}{8} + \frac{11x^6}{6} - \frac{11x^4}{8} + \frac{5x^2}{12}$$

$$\sum x^{12} = \frac{x^{13}}{13} + \frac{x^{12}}{2} + \frac{x^{11}}{2} - \frac{11x^9}{6} + \frac{22x^7}{7} - \frac{3x^5}{10} + \frac{5x^3}{3} - \frac{691x}{2730}$$

$$\sum x^{13} = \frac{x^{14}}{14} + \frac{x^{13}}{2} + \frac{x^{12}}{2} - \frac{143x^{10}}{60} + \frac{143x^8}{28} - \frac{143x^6}{20} + \frac{65x^4}{12} - \frac{691x^2}{420}$$

$$\sum x^{14} = \frac{x^{15}}{15} + \frac{x^{14}}{2} + \frac{7x^{13}}{6} - \frac{91x^{11}}{30} + \frac{143x^9}{18} - \frac{143x^7}{10} + \frac{91x^5}{6} - \frac{691x^3}{40} + \frac{7x}{6}$$

$$\sum x^{15} = \frac{x^{16}}{16} + \frac{x^{15}}{2} + \frac{5x^{14}}{4} - \frac{91x^{12}}{24} + \frac{143x^{10}}{12} - \frac{429x^8}{16} + \frac{455x^6}{12} - \frac{691x^4}{24} + \frac{35x^2}{4}$$

$$\sum x^{16} = \frac{x^{17}}{17} + \frac{x^{16}}{2} + \frac{4x^{15}}{3} - \frac{14x^{13}}{3} + \frac{52x^{11}}{3} - \frac{143x^9}{3} + \frac{260x^7}{3} - \frac{1382x^5}{15} + \frac{140x^3}{3} - \frac{3617x}{50}$$

$$\sum x^{17} = \frac{x^{18}}{18} + \frac{x^{17}}{2} + \frac{17x^{16}}{12} - \frac{17x^{14}}{3} + \frac{221x^{12}}{9} - \frac{2431x^{10}}{30} + \frac{1105x^8}{6} - \frac{11747x^6}{45} + \frac{595x^4}{3} - \frac{3617x^2}{60}$$

$$\sum x^{18} = \frac{x^{19}}{19} + \frac{x^{18}}{2} + \frac{3x^{17}}{2} - \frac{34x^{15}}{5} + \frac{34x^{13}}{5} - \frac{663x^{11}}{5} + \frac{1105x^9}{3} - \frac{23499x^7}{35} + \frac{714x^5}{10} - \frac{3617x^3}{10} + \frac{43867x}{798}$$

$$\sum x^{19} = \frac{x^{20}}{20} + \frac{x^{19}}{2} + \frac{19x^{18}}{12} - \frac{323x^{16}}{40} + \frac{323x^{14}}{7} - \frac{4194x^{12}}{20} + \frac{4194x^{10}}{6} - \frac{223193x^8}{140} + \frac{2261x^6}{40} - \frac{69723x^4}{40} + \frac{43867x^2}{84}$$

$$\sum x^{20} = \frac{x^{21}}{21} + \frac{x^{20}}{2} +$$

$$\sum x^{21} = \frac{x^{22}}{22} + \frac{x^{21}}{2} +$$

$$\sum x^{22} = \frac{x^{23}}{23} + \frac{x^{22}}{2} +$$

$$\sum x^{23} = \frac{x^{24}}{24} + \frac{x^{23}}{2} +$$

$$\sum x^{24} = \frac{x^{25}}{25} + \frac{x^{24}}{2} +$$

$$\sum x^{25} = \frac{x^{26}}{26} + \frac{x^{25}}{2} +$$