

Варіанти завдань до контрольної лабораторної роботи №2
2020/21 н.р., перший семестр

1) $S(x) = \sum_{n=0}^{\infty} \frac{(-1)^n (2n+1)!}{(n!)^2 (2n+3)} x^{2n+3}$, $D_S = [a; b]$, $a = -0.4$, $b = 0.4$

2) $S(x) = \sum_{n=0}^{\infty} \frac{(-1)^n n!}{(2n)!} x^n$, $D_S = [a; b]$, $a = 0$, $b = 1$

3) $S(x) = \sum_{n=0}^{\infty} \frac{(-1)^n}{(4n+3)!} x^{4n+3}$, $D_S = [a; b]$, $a = -1$, $b = 1$

4) $S(x) = \sum_{n=0}^{\infty} \frac{n!}{(2n)!} x^{2n}$, $D_S = [a; b]$, $a = -1$, $b = 1$

5) $S(x) = \sum_{n=0}^{\infty} \frac{1}{(4n+2)!} x^{2n+1}$, $D_S = [a; b]$, $a = 0$, $b = 1$

6) $S(x) = \sum_{n=0}^{\infty} \frac{((2n)!)^2}{(2n-1)(n!)^4} x^{2n}$, $D_S = [a; b]$, $a = -0.2$, $b = 0.2$

7) $S(x) = \sum_{n=0}^{\infty} \frac{(4n+1)!}{((2n)!)^2} x^{2n}$, $D_S = [a; b]$, $a = -0.2$, $b = 0.2$

8) $S(x) = \sum_{n=0}^{\infty} \frac{(2n)!}{n!(n+1)!} x^{n+1}$, $D_S = [a; b]$, $a = -0.2$, $b = 0.2$

$$9) \quad S(x) = \sum_{n=0}^{\infty} \frac{(2n)!(2n+1)!}{(n!(n+1)!)^2} x^{n+1}, \quad D_S = [a; b], \quad a = 0, \quad b = 0.04$$

$$10) \quad S(x) = \sum_{n=0}^{\infty} \frac{n!}{(2n+1)!} x^{2n+1}, \quad D_S = [a; b], \quad a = -1, \quad b = 1$$

$$11) \quad S(x) = \sum_{n=0}^{\infty} \frac{1}{(n!)^2} x^n, \quad D_S = [a; b], \quad a = 0, \quad b = 1$$

$$12) \quad S(x) = \sum_{n=0}^{\infty} \frac{1}{6n+1} x^{6n+1}, \quad D_S = [a; b], \quad a = -0.9, \quad b = 0.9$$

$$13) \quad S(x) = \sum_{n=0}^{\infty} \frac{(2n+2)!}{n!(n+3)!} x^n, \quad D_S = [a; b], \quad a = -0.2, \quad b = 0.2$$

$$14) \quad S(x) = \sum_{n=0}^{\infty} \frac{1}{(n+1)(3n+1)} x^{3n+3}, \quad D_S = [a; b], \quad a = -0.9, \quad b = 0.9$$

$$15) \quad S(x) = \sum_{n=0}^{\infty} \frac{(-1)^{\lfloor \frac{n+1}{2} \rfloor}}{(2n+1)!} x^{2n+1}, \quad D_S = [a; b], \quad a = -1, \quad b = 1$$

$$16) \quad S(x) = \sum_{n=0}^{\infty} \frac{(-1)^n}{6n+1} x^{6n+1}, \quad D_S = [a; b], \quad a = -0.9, \quad b = 0.9$$

$$17) \quad S(x) = \sum_{n=0}^{\infty} \frac{(2n+1)!}{(n!)^2} x^n, \quad D_S = [a; b], \quad a = -0.2, \quad b = 0.2$$

$$18) \quad S(x) = \sum_{n=0}^{\infty} \frac{1}{n!(n+1)!} x^n, \quad D_S = [a; b], \quad a = 0, \quad b = 1$$

$$19) \quad S(x) = \sum_{n=0}^{\infty} \frac{((2n)!)^2}{(n!(n+1)!)^2} x^{4n+4}, \quad D_S = [a; b], \quad a = 0, \quad b = 0.4$$

$$20) \quad S(x) = \sum_{n=0}^{\infty} \frac{1}{(n+1)(2n+1)} x^{n+1}, \quad D_S = [a; b], \quad a = 0.0, \quad b = 0.8$$

$$21) \quad S(x) = \sum_{n=0}^{\infty} \frac{((2n+1)!)^2}{(n!(n+2)!)^2} x^{2n+4}, \quad D_S = [a; b], \quad a = 0.05, \quad b = 0.2$$

$$22) \quad S(x) = \sum_{n=0}^{\infty} \frac{(-1)^n (n!)^2}{(2n+2)!} x^{2n+2}, \quad D_S = [a; b], \quad a = -1, \quad b = 1$$

$$23) \quad S(x) = \sum_{n=0}^{\infty} \frac{(2n)!}{(n!)^2} x^n, \quad D_S = [a; b], \quad a = -0.2, \quad b = 0.2$$

$$24) \quad S(x) = \sum_{n=0}^{\infty} \frac{1}{4n+1} x^{4n+1}, \quad D_S = [a; b], \quad a = -0.9, \quad b = 0.9$$

$$25) \quad S(x) = \sum_{n=0}^{\infty} \frac{(2n)!}{n!(n+3)!} x^{n+3}, \quad D_S = [a; b], \quad a = -0.2, \quad b = 0.2$$

$$26) \quad S(x) = \sum_{n=0}^{\infty} \frac{(-1)^n}{n!(2n+1)} x^{2n+1}, \quad D_S = [a; b], \quad a = -1, \quad b = 1$$

$$27) \quad S(x) = \sum_{n=0}^{\infty} \frac{1}{(n+2)(2n+1)} x^{n+2}, \quad D_S = [a; b], \quad a = 0, \quad b = 0.9$$

$$28) \quad S(x) = \sum_{n=0}^{\infty} \frac{(-1)^n}{(n+1)(2n+1)(2n+3)} x^{2n+3}, \quad D_S = [a; b], \quad a = -0.9, \quad b = 0.9$$

$$29) \quad S(x) = \sum_{n=0}^{\infty} \frac{1}{(2n+1)(2n+3)} x^{2n+3}, \quad D_S = [a; b], \quad a = -0.9, \quad b = 0.9$$

$$30) \quad S(x) = \sum_{n=0}^{\infty} \frac{1}{(3n+1)!} x^{3n+1}, \quad D_S = [a; b], \quad a = -1, \quad b = 1$$

$$31) \quad S(x) = \sum_{n=0}^{\infty} \frac{1}{(4n+1)(4n+5)} x^{4n+5}, \quad D_S = [a; b], \quad a = -0.9, \quad b = 0.9$$

$$32) \quad S(x) = \sum_{n=0}^{\infty} \frac{1}{(3n+1)(3n+2)} x^{3n+2}, \quad D_S = [a; b], \quad a = -0.9, \quad b = 0.9$$

$$33) \quad S(x) = \sum_{n=0}^{\infty} \frac{((2n)!)^2}{(n!(n+1)!)^2} x^{2n+2}, \quad D_S = [a; b], \quad a = 0, \quad b = 0.2$$

$$34) \quad S(x) = \sum_{n=0}^{\infty} \frac{1}{3n+2} x^{3n+2}, \quad D_S = [a; b], \quad a = -0.9, \quad b = 0.9$$

$$35) \quad S(x) = \sum_{n=0}^{\infty} \frac{1}{(n!)^2} x^{2n}, \quad D_S = [a; b], \quad a = 0, \quad b = 1$$

$$36) \quad S(x) = \sum_{n=0}^{\infty} \frac{(-1)^n}{(4n)!} x^{4n}, \quad D_S = [a; b], \quad a = -1, \quad b = 1$$

$$37) \quad S(x) = \sum_{n=0}^{\infty} \frac{(-1)^n}{n!(n+2)!} x^{2n}, \quad D_S = [a; b], \quad a = 0, \quad b = 1$$

$$38) \quad S(x) = \sum_{n=1}^{\infty} \frac{n}{(n+2)!} x^{n+2}, \quad D_S = [a; b], \quad a = -1, \quad b = 1$$

$$39) \quad S(x) = \sum_{n=0}^{\infty} \frac{(2n+3)!}{n!(n+1)!} x^n, \quad D_S = [a; b], \quad a = -0.2, \quad b = 0.2$$

$$40) \quad S(x) = \sum_{n=0}^{\infty} \frac{(-1)^n}{(4n+2)!} x^{4n+2}, \quad D_S = [a; b], \quad a = -1, \quad b = 1$$

$$41) \quad S(x) = \sum_{n=0}^{\infty} \frac{((2n)!)^2}{(n!)^4} x^{2n}, \quad D_S = [a; b], \quad a = -0.2, \quad b = 0.2$$

$$42) \quad S(x) = \sum_{n=0}^{\infty} \frac{(-1)^n}{(2n+1)(2n+3)} x^{2n+3}, \quad D_S = [a; b], \quad a = -0.9, \quad b = 0.9$$

$$43) \quad S(x) = \sum_{n=0}^{\infty} \frac{(-1)^n n!}{(2n)!} x^{2n}, \quad D_S = [a; b], \quad a = -1, \quad b = 1$$

$$44) \quad S(x) = \sum_{n=0}^{\infty} \frac{1}{(4n+1)!} x^{4n+1}, \quad D_S = [a; b], \quad a = -1, \quad b = 1$$

$$45) \quad S(x) = \sum_{n=0}^{\infty} \frac{(-1)^n (n!)^2}{(2n)!} x^n, \quad D_S = [a; b], \quad a = 0, \quad b = 1$$

$$46) \quad S(x) = \sum_{n=0}^{\infty} \frac{(n!)^2}{(2n+1)!} x^{2n+1}, \quad D_S = [a; b], \quad a = -1, \quad b = 1$$

$$47) \quad S(x) = \sum_{n=0}^{\infty} \frac{1}{4n+3} x^{4n+3}, \quad D_S = [a; b], \quad a = -0.9, \quad b = 0.9$$

$$48) \quad S(x) = \sum_{n=0}^{\infty} \frac{(-1)^n}{(4n+3)(4n+5)} x^{4n+5}, \quad D_S = [a; b], \quad a = -0.9, \quad b = 0.9$$

$$49) \quad S(x) = \sum_{n=1}^{\infty} \frac{1}{n(2n+3)} x^{2n+3}, \quad D_S = [a; b], \quad a = -0.9, \quad b = 0.9$$

$$50) \quad S(x) = \sum_{n=0}^{\infty} \frac{1}{(2n)!(4n+1)} x^{4n+1}, \quad D_S = [a; b], \quad a = -1, \quad b = 1$$

$$51) \quad S(x) = \sum_{n=1}^{\infty} \frac{(-1)^n}{n(2n+1)} x^{2n+1}, \quad D_S = [a; b], \quad a = -0.9, \quad b = 0.9$$

$$52) \quad S(x) = \sum_{n=0}^{\infty} \frac{n!(n+1)!}{(2n+3)!} x^{2n+3}, \quad D_S = [a; b], \quad a = -1, \quad b = 1$$

$$53) \quad S(x) = \sum_{n=0}^{\infty} \frac{1}{3n+1} x^{3n+1}, \quad D_S = [a; b], \quad a = -0.9, \quad b = 0.9$$

$$54) \quad S(x) = \sum_{n=0}^{\infty} \frac{(-1)^n (2n)!}{(n!)^2 (2n+1)} x^{2n+1}, \quad D_S = [a; b], \quad a = -0.4, \quad b = 0.4$$

$$55) \quad S(x) = \sum_{n=0}^{\infty} \frac{(-1)^n}{(n+1)(2n+1)} x^{n+1}, \quad D_S = [a; b], \quad a = 0.0, \quad b = 0.8$$

$$56) \quad S(x) = \sum_{n=0}^{\infty} \frac{1}{(2n+1)!(4n+3)} x^{4n+3}, \quad D_S = [a; b], \quad a = -1, \quad b = 1$$

$$57) \quad S(x) = \sum_{n=0}^{\infty} \frac{1}{(4n+1)(4n+3)(4n+5)} x^{4n+5}, \quad D_S = [a; b], \quad a = -0.9, \quad b = 0.9$$

$$58) \quad S(x) = \sum_{n=0}^{\infty} \frac{1}{2n+1} x^{2n+1}, \quad D_S = [a; b], \quad a = -0.9, \quad b = 0.9$$

$$59) \quad S(x) = \sum_{n=0}^{\infty} \frac{(2n)!}{(n!)^2(2n-1)} x^n, \quad D_S = [a; b], \quad a = -0.2, \quad b = 0.2$$

$$60) \quad S(x) = \sum_{n=0}^{\infty} \frac{(2n+1)!}{(n!)^2(2n+3)} x^{2n+3}, \quad D_S = [a; b], \quad a = -0.4, \quad b = 0.4$$

$$61) \quad S(x) = \sum_{n=0}^{\infty} \frac{(-1)^{\lfloor \frac{n}{2} \rfloor}}{(2n+1)!} x^{2n+1}, \quad D_S = [a; b], \quad a = -1, \quad b = 1$$

$$62) \quad S(x) = \sum_{n=0}^{\infty} \frac{(-1)^n}{(n!)^2} x^{2n}, \quad D_S = [a; b], \quad a = 0, \quad b = 1$$

$$63) \quad S(x) = \sum_{n=1}^{\infty} \frac{1}{n(n+2)} x^{n+2}, \quad D_S = [a; b], \quad a = -0.9, \quad b = 0.9$$

$$64) \quad S(x) = \sum_{n=0}^{\infty} \frac{(-1)^n}{2n+1} x^{2n+1}, \quad D_S = [a; b], \quad a = -0.9, \quad b = 0.9$$

$$65) \quad S(x) = \sum_{n=0}^{\infty} \frac{1}{n!(n+1)!} x^{2n}, \quad D_S = [a; b], \quad a = 0, \quad b = 1$$

$$66) \quad S(x) = \sum_{n=1}^{\infty} \frac{1}{n(n+3)} x^{n+3}, \quad D_S = [a; b], \quad a = -0.9, \quad b = 0.9$$

$$67) \quad S(x) = \sum_{n=0}^{\infty} \frac{1}{(4n+2)!} x^{4n+2}, \quad D_S = [a; b], \quad a = -1, \quad b = 1$$

$$68) \quad S(x) = \sum_{n=0}^{\infty} \frac{(-1)^n}{(n+1)(2n+1)} x^{2n+2}, \quad D_S = [a; b], \quad a = -0.9, \quad b = 0.9$$

$$69) \quad S(x) = \sum_{n=0}^{\infty} \frac{(-1)^n}{4n+1} x^{4n+1}, \quad D_S = [a; b], \quad a = -0.9, \quad b = 0.9$$

$$70) \quad S(x) = \sum_{n=0}^{\infty} \frac{(-1)^n (n!)^2}{(2n+2)!} x^{n+1}, \quad D_S = [a; b], \quad a = 0, \quad b = 1$$

$$71) \quad S(x) = \sum_{n=1}^{\infty} \frac{1}{n(2n+1)} x^{2n+1}, \quad D_S = [a; b], \quad a = -0.9, \quad b = 0.9$$

$$72) \quad S(x) = \sum_{n=0}^{\infty} \frac{(-1)^n (4n)!}{((2n)!)^2} x^{2n}, \quad D_S = [a; b], \quad a = -0.2, \quad b = 0.2$$

$$73) \quad S(x) = \sum_{n=0}^{\infty} \frac{(-1)^n}{(2n+1)(2n+3)(2n+5)} x^{2n+5}, \quad D_S = [a; b], \quad a = -0.9, \quad b = 0.9$$

$$74) \quad S(x) = \sum_{n=0}^{\infty} \frac{(-1)^n}{(n+1)(4n+3)(4n+5)} x^{4n+5}, \quad D_S = [a; b], \quad a = -0.9, \quad b = 0.9$$

$$75) \quad S(x) = \sum_{n=0}^{\infty} \frac{(2n)!}{(n!)^2(2n+1)} x^{2n+1}, \quad D_S = [a; b], \quad a = -0.4, \quad b = 0.4$$

$$76) \quad S(x) = \sum_{n=0}^{\infty} \frac{(-1)^n n!}{(2n+1)!} x^{2n+1}, \quad D_S = [a; b], \quad a = -1, \quad b = 1$$

$$77) \quad S(x) = \sum_{n=1}^{\infty} \frac{1}{n(n+1)} x^{n+1}, \quad D_S = [a; b], \quad a = -0.9, \quad b = 0.9$$

$$78) \quad S(x) = \sum_{n=0}^{\infty} \frac{(-1)^n}{4n+3} x^{4n+3}, \quad D_S = [a; b], \quad a = -0.9, \quad b = 0.9$$

$$79) \quad S(x) = \sum_{n=0}^{\infty} \frac{1}{(n+1)(2n+1)(2n+3)} x^{2n+3}, \quad D_S = [a; b], \quad a = -0.9, \quad b = 0.9$$

$$80) \quad S(x) = \sum_{n=0}^{\infty} \frac{(2n)!}{n!(n+1)!(2n+3)} x^{2n+3}, \quad D_S = [a; b], \quad a = -0.4, \quad b = 0.4$$

$$81) \quad S(x) = \sum_{n=0}^{\infty} \frac{(-1)^{[n/2]}(-1)^n(2n)!}{(n!)^2} x^n, \quad D_S = [a; b], \quad a = -0.2, \quad b = 0.2$$

$$82) \quad S(x) = \sum_{n=0}^{\infty} \frac{1}{((2n)!)^2} x^{2n}, \quad D_S = [a; b], \quad a = 0, \quad b = 1$$

$$83) \quad S(x) = \sum_{n=0}^{\infty} \frac{(n!)^2}{(2n)!} x^n, \quad D_S = [a; b], \quad a = 0, \quad b = 1$$

$$84) \quad S(x) = \sum_{n=0}^{\infty} \frac{1}{((2n)!)^2} x^{4n}, \quad D_S = [a; b], \quad a = 0, \quad b = 1$$

$$85) \quad S(x) = \sum_{n=0}^{\infty} \frac{(-1)^n(2n)!}{(n!)^2(2n+1)^2} x^{2n+1}, \quad D_S = [a; b], \quad a = -0.2, \quad b = 0.2$$

$$86) \quad S(x) = \sum_{n=0}^{\infty} \frac{(2n+3)!}{n!(n+2)!} x^n, \quad D_S = [a; b], \quad a = -0.2, \quad b = 0.2$$

$$87) \quad S(x) = \sum_{n=0}^{\infty} \frac{(2n)!}{(n!)^2(2n-1)^2} x^{2n-1}, \quad D_S = [a; b], \quad a = -0.4, \quad b = 0.4$$

$$88) \quad S(x) = \sum_{n=0}^{\infty} \frac{(-1)^n(n!)^2}{(2n+1)!} x^{2n+1}, \quad D_S = [a; b], \quad a = -1, \quad b = 1$$

$$89) \quad S(x) = \sum_{n=0}^{\infty} \frac{(2n)!}{n!(n+2)!} x^{n+2}, \quad D_S = [a; b], \quad a = -0.2, \quad b = 0.2$$

$$90) \quad S(x) = \sum_{n=0}^{\infty} \frac{(4n)!}{((2n)!)^2} x^{2n}, \quad D_S = [a; b], \quad a = -0.2, \quad b = 0.2$$

$$91) \quad S(x) = \sum_{n=0}^{\infty} \frac{((2n)!)^2}{(n!)^4} x^n, \quad D_S = [a; b], \quad a = 0, \quad b = 0.04$$

$$92) \quad S(x) = \sum_{n=0}^{\infty} \frac{1}{n!(n+2)} x^{n+2}, \quad D_S = [a; b], \quad a = -1, \quad b = 1$$

$$93) \quad S(x) = \sum_{n=0}^{\infty} \frac{(-1)^n}{(4n+1)!} x^{4n+1}, \quad D_S = [a; b], \quad a = -1, \quad b = 1$$

$$94) \quad S(x) = \sum_{n=0}^{\infty} \frac{(-1)^n (2n)!}{(n!)^4} x^{2n}, \quad D_S = [a; b], \quad a = 0, \quad b = 1$$

$$95) \quad S(x) = \sum_{n=0}^{\infty} \frac{(2n)!}{(n!)^3} x^n, \quad D_S = [a; b], \quad a = 0, \quad b = 1$$

$$96) \quad S(x) = \sum_{n=0}^{\infty} \frac{1}{(4n)!} x^{4n}, \quad D_S = [a; b], \quad a = -1, \quad b = 1$$

$$97) \quad S(x) = \sum_{n=0}^{\infty} \frac{(-1)^n (n!)^2}{(2n+3)!} x^{2n+3}, \quad D_S = [a; b], \quad a = -1, \quad b = 1$$

$$98) \quad S(x) = \sum_{n=0}^{\infty} \frac{1}{(2n)!(2n+1)!} x^{4n+1}, \quad D_S = [a; b], \quad a = 0, \quad b = 1$$

$$99) \quad S(x) = \sum_{n=0}^{\infty} \frac{1}{(2n+1)(2n+3)(2n+5)} x^{2n+5}, \quad D_S = [a; b], \quad a = -0.9, \quad b = 0.9$$

$$100) \quad S(x) = \sum_{n=0}^{\infty} \frac{(-1)^n}{(4n+2)!} x^{2n+1}, \quad D_S = [a; b], \quad a = 0, \quad b = 1$$

$$101) \quad S(x) = \sum_{n=0}^{\infty} \frac{(-1)^n}{(4n+1)(4n+5)} x^{4n+5}, \quad D_S = [a; b], \quad a = -0.9, \quad b = 0.9$$

$$102) \quad S(x) = \sum_{n=0}^{\infty} \frac{(2n+3)!}{n!(n+4)!} x^{n+4}, \quad D_S = [a; b], \quad a = -0.2, \quad b = 0.2$$

$$103) \quad S(x) = \sum_{n=0}^{\infty} \frac{1}{(4n+1)(4n+3)} x^{4n+3}, \quad D_S = [a; b], \quad a = -0.9, \quad b = 0.9$$

$$104) \quad S(x) = \sum_{n=0}^{\infty} \frac{(4n+1)!}{((2n)!)^2} x^n, \quad D_S = [a; b], \quad a = 0, \quad b = 0.02$$

$$105) \quad S(x) = \sum_{n=0}^{\infty} \frac{1}{(4n+3)(4n+5)} x^{4n+5}, \quad D_S = [a; b], \quad a = -0.9, \quad b = 0.9$$

$$106) \quad S(x) = \sum_{n=0}^{\infty} \frac{(2n+3)!}{n!(n+3)!} x^n, \quad D_S = [a; b], \quad a = -0.2, \quad b = 0.2$$

$$107) \quad S(x) = \sum_{n=0}^{\infty} \frac{1}{(3n+2)!} x^{3n+2}, \quad D_S = [a; b], \quad a = -1, \quad b = 1$$

$$108) \quad S(x) = \sum_{n=0}^{\infty} \frac{n!}{(2n)!} x^n, \quad D_S = [a; b], \quad a = 0, \quad b = 1$$

$$109) \quad S(x) = \sum_{n=0}^{\infty} \frac{(-1)^n}{n!(n+1)!} x^{2n}, \quad D_S = [a; b], \quad a = 0, \quad b = 1$$

$$110) \quad S(x) = \sum_{n=0}^{\infty} \frac{(n!)^2}{(2n)!} x^{2n}, \quad D_S = [a; b], \quad a = -1, \quad b = 1$$

$$111) \quad S(x) = \sum_{n=0}^{\infty} \frac{(-1)^n}{n!(n+2)!} x^n, \quad D_S = [a; b], \quad a = 0, \quad b = 1$$

$$112) \quad S(x) = \sum_{n=0}^{\infty} \frac{1}{(n+1)(4n+3)(4n+5)} x^{4n+5}, \quad D_S = [a; b], \quad a = -0.9, \quad b = 0.9$$

$$113) \quad S(x) = \sum_{n=0}^{\infty} \frac{(n!)^2}{(2n+2)!} x^{n+1}, \quad D_S = [a; b], \quad a = 0, \quad b = 1$$

$$114) \quad S(x) = \sum_{n=0}^{\infty} \frac{1}{n!(n+2)!} x^n, \quad D_S = [a; b], \quad a = 0, \quad b = 1$$

$$115) \quad S(x) = \sum_{n=0}^{\infty} \frac{1}{(n+1)(2n+1)} x^{2n+2}, \quad D_S = [a; b], \quad a = -0.9, \quad b = 0.9$$

$$116) \quad S(x) = \sum_{n=0}^{\infty} \frac{(-1)^n (n!)^2}{(2n)!} x^{2n}, \quad D_S = [a; b], \quad a = -1, \quad b = 1$$

$$117) \quad S(x) = \sum_{n=0}^{\infty} \frac{((2n)!)^2}{(2n-1)(n!)^4} x^n, \quad D_S = [a; b], \quad a = 0.0, \quad b = 0.04$$

$$118) \quad S(x) = \sum_{n=0}^{\infty} \frac{1}{(2n+1)!(2n+1)!} x^{2n+1}, \quad D_S = [a; b], \quad a = 0, \quad b = 1$$

$$119) \quad S(x) = \sum_{n=0}^{\infty} \frac{(-1)^n}{(n+1)!(2n+1)} x^{2n+1}, \quad D_S = [a; b], \quad a = -1, \quad b = 1$$

$$120) \quad S(x) = \sum_{n=0}^{\infty} \frac{(-1)^n n!(n+1)!}{(2n+3)!} x^{2n+3}, \quad D_S = [a; b], \quad a = -1, \quad b = 1$$

$$121) \quad S(x) = \sum_{n=0}^{\infty} \frac{(4n)!}{((2n)!)^2} x^n, \quad D_S = [a; b], \quad a = 0.0, \quad b = 0.04$$

$$122) \quad S(x) = \sum_{n=1}^{\infty} \frac{1}{n(n+1)(n+2)(n+3)} x^{n+3}, \quad D_S = [a; b], \quad a = -0.9, \quad b = 0.9$$

$$123) \quad S(x) = \sum_{n=0}^{\infty} \frac{(-1)^n}{(4n)!} x^{2n}, \quad D_S = [a; b], \quad a = 0, \quad b = 1$$

$$124) \quad S(x) = \sum_{n=0}^{\infty} \frac{(-1)^n}{n!(n+1)!} x^n, \quad D_S = [a; b], \quad a = 0, \quad b = 1$$

$$125) \quad S(x) = \sum_{n=1}^{\infty} \frac{n}{(n+3)!} x^{n+3}, \quad D_S = [a; b], \quad a = -1, \quad b = 1$$

$$126) \quad S(x) = \sum_{n=0}^{\infty} \frac{1}{(3n+2)(3n+4)} x^{3n+4}, \quad D_S = [a; b], \quad a = -0.9, \quad b = 0.9$$

$$127) \quad S(x) = \sum_{n=0}^{\infty} \frac{(2n)!}{(n!)^2(2n+1)^2} x^{2n+1}, \quad D_S = [a; b], \quad a = -0.2, \quad b = 0.2$$

$$128) \quad S(x) = \sum_{n=0}^{\infty} \frac{(-1)^n}{(n!)^2} x^n, \quad D_S = [a; b], \quad a = 0, \quad b = 1$$

$$129) \quad S(x) = \sum_{n=0}^{\infty} \frac{(-1)^{[n/2]}(2n)!}{(n!)^2} x^n, \quad D_S = [a; b], \quad a = -0.2, \quad b = 0.2$$

$$130) \quad S(x) = \sum_{n=0}^{\infty} \frac{(-1)^n(4n)!}{((2n)!)^2} x^n, \quad D_S = [a; b], \quad a = 0.0, \quad b = 0.04$$

$$131) \quad S(x) = \sum_{n=0}^{\infty} \frac{(2n+1)!}{n!(n+3)!} x^{n+3}, \quad D_S = [a; b], \quad a = -0.2, \quad b = 0.2$$

$$132) \quad S(x) = \sum_{n=0}^{\infty} \frac{1}{(4n+3)(4n+7)} x^{4n+7}, \quad D_S = [a; b], \quad a = -0.9, \quad b = 0.9$$

$$133) \quad S(x) = \sum_{n=0}^{\infty} \frac{(2n)!(2n+1)!}{(n!(n+1)!)^2} x^{2n+2}, \quad D_S = [a; b], \quad a = 0, \quad b = 0.2$$

$$134) \quad S(x) = \sum_{n=0}^{\infty} \frac{(n!)^2}{(2n+2)!} x^{2n+2}, \quad D_S = [a; b], \quad a = -1, \quad b = 1$$

$$135) \quad S(x) = \sum_{n=0}^{\infty} \frac{1}{(4n+3)!} x^{4n+3}, \quad D_S = [a; b], \quad a = -1, \quad b = 1$$

$$136) \quad S(x) = \sum_{n=0}^{\infty} \frac{(-1)^n(2n)!}{(n!)^4} x^n, \quad D_S = [a; b], \quad a = 0, \quad b = 1$$

$$137) \quad S(x) = \sum_{n=0}^{\infty} \frac{1}{n!(n+1)} x^{n+1}, \quad D_S = [a; b], \quad a = -1, \quad b = 1$$

$$138) \quad S(x) = \sum_{n=0}^{\infty} \frac{1}{(3n)!} x^{3n}, \quad D_S = [a; b], \quad a = -1, \quad b = 1$$

$$139) \quad S(x) = \sum_{n=1}^{\infty} \frac{(2n)!}{(n!)^2 n} x^n, \quad D_S = [a; b], \quad a = -0.2, \quad b = 0.2$$

$$140) \quad S(x) = \sum_{n=1}^{\infty} \frac{1}{n(n+1)(2n+1)} x^{2n+1}, \quad D_S = [a; b], \quad a = -0.9, \quad b = 0.9$$

$$141) \quad S(x) = \sum_{n=0}^{\infty} \frac{(-1)^n}{(n+2)(2n+1)} x^{n+2}, \quad D_S = [a; b], \quad a = 0, \quad b = 0.9$$

$$142) \quad S(x) = \sum_{n=0}^{\infty} \frac{(-1)^n}{(4n+1)(4n+3)} x^{4n+3}, \quad D_S = [a; b], \quad a = -0.9, \quad b = 0.9$$

$$143) \quad S(x) = \sum_{n=0}^{\infty} \frac{(2n+2)!}{n!(n+2)!} x^n, \quad D_S = [a; b], \quad a = -0.2, \quad b = 0.2$$

$$144) \quad S(x) = \sum_{n=0}^{\infty} \frac{1}{n!(n+2)!} x^{2n}, \quad D_S = [a; b], \quad a = 0, \quad b = 1$$

$$145) \quad S(x) = \sum_{n=0}^{\infty} \frac{1}{(2n+1)!(2n+1)!} x^{4n+2}, \quad D_S = [a; b], \quad a = 0, \quad b = 1$$

$$146) \quad S(x) = \sum_{n=1}^{\infty} \frac{1}{n(n+1)(n+2)} x^{n+2}, \quad D_S = [a; b], \quad a = -0.9, \quad b = 0.9$$

$$147) \quad S(x) = \sum_{n=0}^{\infty} \frac{(2n+1)!}{n!(n+2)!} x^{n+2}, \quad D_S = [a; b], \quad a = -0.2, \quad b = 0.2$$

$$148) \quad S(x) = \sum_{n=0}^{\infty} \frac{(-1)^n}{(4n+1)(4n+3)(4n+5)} x^{4n+5}, \quad D_S = [a; b], \quad a = -0.9, \quad b = 0.9$$

$$149) \quad S(x) = \sum_{n=0}^{\infty} \frac{(-1)^n}{(4n+3)(4n+7)} x^{4n+7}, \quad D_S = [a; b], \quad a = -0.9, \quad b = 0.9$$

$$150) \quad S(x) = \sum_{n=0}^{\infty} \frac{(n!)^2}{(2n+3)!} x^{2n+3}, \quad D_S = [a; b], \quad a = -1, \quad b = 1$$