

Quadratische Funktionen

Rationale Koeffizienten und Lösungen

01)	$f(x) = -\frac{243}{64}x^2 - \frac{27}{32}x + \frac{189}{64}$	$\text{NST} = \left\{-1; \frac{7}{9}\right\}$	$S\left(-\frac{1}{9} \mid 3\right)$
02)	$f(x) = \frac{175}{432}x^2 - \frac{35}{108}x - \frac{245}{108}$	$\text{NST} = \left\{-2; \frac{14}{5}\right\}$	$S\left(\frac{2}{5} \mid -\frac{7}{3}\right)$
03)	$f(x) = \frac{99}{32}x^2 - \frac{77}{16}x - \frac{55}{96}$	$\text{NST} = \left\{-\frac{1}{9}; \frac{5}{3}\right\}$	$S\left(\frac{7}{9} \mid -\frac{22}{9}\right)$
04)	$f(x) = -\frac{75}{128}x^2 + \frac{45}{16}x - \frac{15}{8}$	$\text{NST} = \left\{\frac{4}{5}; 4\right\}$	$S\left(\frac{12}{5} \mid \frac{3}{2}\right)$
05)	$f(x) = -\frac{11}{12}x^2 - \frac{143}{54}x + \sqrt{\frac{40}{13}}$	$\text{NST} = \left\{-\frac{31}{9}; \frac{5}{9}\right\}$	$S\left(-\frac{13}{9} \mid \frac{11}{3}\right)$
06)	$f(x) = -\frac{112}{529}x^2 - \frac{196}{529}x + \frac{840}{529}$	$\text{NST} = \left\{-\frac{15}{4}; 2\right\}$	$S\left(-\frac{7}{8} \mid \frac{7}{4}\right)$
07)	$f(x) = \frac{4}{45}x^2 + \frac{4}{45}x - \frac{8}{15}$	$\text{NST} = \{-3; 2\}$	$S\left(-\frac{1}{2} \mid -\frac{5}{9}\right)$
08)	$f(x) = 36x^2 - 204x + 288$	$\text{NST} = \left\{\frac{8}{3}; 3\right\}$	$S\left(\frac{17}{6} \mid -1\right)$
09)	$f(x) = -\frac{112}{27}x^2 + \frac{280}{9}x - 56$	$\text{NST} = \left\{3; \frac{9}{2}\right\}$	$S\left(\frac{15}{4} \mid \frac{7}{3}\right)$
10)	$f(x) = -\frac{232}{363}x^2 + \frac{348}{121}x + \frac{580}{363}$	$\text{NST} = \left\{-\frac{1}{2}; 5\right\}$	$S\left(\frac{9}{4} \mid \frac{29}{6}\right)$
11)	$f(x) = -\frac{48}{49}x^2 + \frac{80}{49}x + \frac{32}{49}$	$\text{NST} = \left\{-\frac{1}{3}; 2\right\}$	$S\left(\frac{5}{6} \mid \frac{4}{3}\right)$
12)	$f(x) = \frac{144}{13}x^2 - \frac{536}{13}x + \frac{480}{13}$	$\text{NST} = \left\{\frac{3}{2}; \frac{20}{9}\right\}$	$S\left(\frac{67}{36} \mid -\frac{13}{9}\right)$
13)	$f(x) = -\frac{48}{49}x^2 - \frac{40}{49}x + \frac{416}{147}$	$\text{NST} = \left\{-\frac{13}{6}; \frac{4}{3}\right\}$	$S\left(-\frac{5}{12} \mid 3\right)$
14)	$f(x) = -\frac{256}{81}x^2 - \frac{64}{81}x + \frac{320}{81}$	$\text{NST} = \left\{-\frac{5}{4}; 1\right\}$	$S\left(-\frac{1}{8} \mid 4\right)$
15)	$f(x) = -\frac{24}{289}x^2 + \frac{32}{289}x + \frac{182}{289}$	$\text{NST} = \left\{-\frac{13}{6}; \frac{7}{2}\right\}$	$S\left(\frac{2}{3} \mid \frac{2}{3}\right)$
16)	$f(x) = \frac{15}{16}x^2 + \frac{45}{16}x - \frac{105}{64}$	$\text{NST} = \left\{-\frac{7}{2}; \frac{1}{2}\right\}$	$S\left(-\frac{3}{2} \mid -\frac{15}{4}\right)$
17)	$f(x) = -\frac{189}{128}x^2 + \frac{105}{64}x + \frac{91}{128}$	$\text{NST} = \left\{-\frac{1}{3}; \frac{13}{9}\right\}$	$S\left(\frac{5}{9} \mid \frac{7}{6}\right)$
18)	$f(x) = \frac{5}{6}x^2 - 6x + \frac{299}{30}$	$\text{NST} = \left\{\frac{13}{5}; \frac{23}{5}\right\}$	$S\left(\frac{18}{5} \mid -\frac{5}{6}\right)$
19)	$f(x) = -\frac{400}{121}x^2 - \frac{80}{121}x + \frac{480}{121}$	$\text{NST} = \left\{-\frac{6}{5}; 1\right\}$	$S\left(-\frac{1}{10} \mid 4\right)$

20)	$f(x) = -\frac{243}{80}x^2 - \frac{27}{2}x - \frac{63}{5}$	$\text{NST} = \left\{-\frac{28}{9}; -\frac{4}{3}\right\}$	$S\left(-\frac{20}{9} \mid \frac{12}{5}\right)$
21)	$f(x) = \frac{3}{2}x^2 - \frac{23}{3}x + \frac{385}{54}$	$\text{NST} = \left\{\frac{11}{9}; \frac{35}{9}\right\}$	$S\left(\frac{23}{9} \mid -\frac{8}{3}\right)$
22)	$f(x) = -\frac{208}{625}x^2 - \sqrt{\frac{842}{947}}x + \sqrt{\frac{281}{466}}$	$\text{NST} = \left\{-\frac{7}{2}; \frac{2}{3}\right\}$	$S\left(-\frac{17}{12} \mid \frac{13}{9}\right)$
23)	$f(x) = -\frac{25}{16}x^2 - \frac{15}{8}x + \frac{55}{16}$	$\text{NST} = \left\{-\frac{11}{5}; 1\right\}$	$S\left(-\frac{3}{5} \mid 4\right)$
24)	$f(x) = \frac{27}{32}x^2 + \frac{63}{16}x + \frac{99}{32}$	$\text{NST} = \left\{-\frac{11}{3}; -1\right\}$	$S\left(-\frac{7}{3} \mid -\frac{3}{2}\right)$
25)	$f(x) = 475x^2 + 2185x + 2508$	$\text{NST} = \left\{-\frac{12}{5}; -\frac{11}{5}\right\}$	$S\left(-\frac{23}{10} \mid -\frac{19}{4}\right)$
26)	$f(x) = \frac{5}{4}x^2 - \frac{15}{2}x + \frac{25}{4}$	$\text{NST} = \{1; 5\}$	$S(3 \mid -5)$
27)	$f(x) = \frac{1}{4}x^2 - 1$	$\text{NST} = \{-2; 2\}$	$S(0 \mid -1)$
28)	$f(x) = -\frac{162}{5}x^2 - \frac{468}{5}x - 66$	$\text{NST} = \left\{-\frac{5}{3}; -\frac{11}{9}\right\}$	$S\left(-\frac{13}{9} \mid \frac{8}{5}\right)$
29)	$f(x) = -\frac{27}{100}x^2 - \frac{9}{10}x + \frac{9}{4}$	$\text{NST} = \left\{-5; \frac{5}{3}\right\}$	$S\left(-\frac{5}{3} \mid 3\right)$
30)	$f(x) = \frac{432}{289}x^2 + \frac{936}{289}x - \frac{360}{289}$	$\text{NST} = \left\{-\frac{5}{2}; \frac{1}{3}\right\}$	$S\left(-\frac{13}{12} \mid -3\right)$
31)	$f(x) = \frac{36}{5}x^2 + \frac{228}{5}x + 72$	$\text{NST} = \left\{-\frac{10}{3}; -3\right\}$	$S\left(-\frac{19}{6} \mid -\frac{1}{5}\right)$
32)	$f(x) = -\frac{88}{169}x^2 + \frac{440}{507}x + \frac{352}{169}$	$\text{NST} = \left\{-\frac{4}{3}; 3\right\}$	$S\left(\frac{5}{6} \mid \frac{22}{9}\right)$
33)	$f(x) = -\frac{64}{49}x^2 - \frac{96}{49}x + \frac{160}{49}$	$\text{NST} = \left\{-\frac{5}{2}; 1\right\}$	$S\left(-\frac{3}{4} \mid 4\right)$
34)	$f(x) = \frac{432}{25}x^2 - \frac{72}{25}x - \frac{72}{25}$	$\text{NST} = \left\{-\frac{1}{3}; \frac{1}{2}\right\}$	$S\left(\frac{1}{12} \mid -3\right)$
35)	$f(x) = \frac{32}{13}x^2 - \frac{656}{39}x + \frac{336}{13}$	$\text{NST} = \left\{\frac{7}{3}; \frac{9}{2}\right\}$	$S\left(\frac{41}{12} \mid -\frac{26}{9}\right)$
36)	$f(x) = -\frac{879}{719}x^2 - \frac{331}{171}x + \frac{662}{361}$	$\text{NST} = \left\{-\frac{9}{4}; \frac{2}{3}\right\}$	$S\left(-\frac{19}{24} \mid \frac{13}{5}\right)$
37)	$f(x) = -\frac{324}{125}x^2 + \frac{396}{125}x + \frac{504}{125}$	$\text{NST} = \left\{-\frac{7}{9}; 2\right\}$	$S\left(\frac{11}{18} \mid 5\right)$
38)	$f(x) = \frac{25}{14}x^2 + \frac{60}{7}x + \frac{95}{14}$	$\text{NST} = \left\{-\frac{19}{5}; -1\right\}$	$S\left(-\frac{12}{5} \mid -\frac{7}{2}\right)$
39)	$f(x) = -\frac{135}{2}x^2 + 144x - 72$	$\text{NST} = \left\{\frac{4}{5}; \frac{4}{3}\right\}$	$S\left(\frac{16}{15} \mid \frac{24}{5}\right)$
40)	$f(x) = \frac{28}{27}x^2 + \frac{56}{27}x - \frac{35}{27}$	$\text{NST} = \left\{-\frac{5}{2}; \frac{1}{2}\right\}$	$S\left(-1 \mid -\frac{7}{3}\right)$

41)	$f(x) = -60x^2 + 280x - 325$	$\text{NST} = \left\{ \frac{13}{6}; \frac{5}{2} \right\}$	$S \left(\frac{7}{3} \mid \frac{5}{3} \right)$
42)	$f(x) = \frac{9}{40}x^2 + \frac{3}{4}x + \frac{9}{40}$	$\text{NST} = \left\{ -3; -\frac{1}{3} \right\}$	$S \left(-\frac{5}{3} \mid -\frac{2}{5} \right)$
43)	$f(x) = \frac{405}{4}x^2 + 450x + 495$	$\text{NST} = \left\{ -\frac{22}{9}; -2 \right\}$	$S \left(-\frac{20}{9} \mid -5 \right)$
44)	$f(x) = \frac{9}{2}x^2 - 27x + 36$	$\text{NST} = \{2; 4\}$	$S \left(3 \mid -\frac{9}{2} \right)$
45)	$f(x) = \frac{792}{289}x^2 - \frac{88}{289}x - \frac{704}{289}$	$\text{NST} = \left\{ -\frac{8}{9}; 1 \right\}$	$S \left(\frac{1}{18} \mid -\frac{22}{9} \right)$
46)	$f(x) = 40x^2 - 60x + 20$	$\text{NST} = \left\{ \frac{1}{2}; 1 \right\}$	$S \left(\frac{3}{4} \mid -\frac{5}{2} \right)$
47)	$f(x) = \frac{72}{625}x^2 + \frac{156}{625}x - \frac{228}{625}$	$\text{NST} = \left\{ -\frac{19}{6}; 1 \right\}$	$S \left(-\frac{13}{12} \mid -\frac{1}{2} \right)$
48)	$f(x) = \frac{800}{121}x^2 - \frac{840}{121}x + \frac{160}{121}$	$\text{NST} = \left\{ \frac{1}{4}; \frac{4}{5} \right\}$	$S \left(\frac{21}{40} \mid -\frac{1}{2} \right)$
49)	$f(x) = \frac{7}{6}x^2 - \frac{14}{3}$	$\text{NST} = \{-2; 2\}$	$S \left(0 \mid -\frac{14}{3} \right)$
50)	$f(x) = -\frac{3}{7}x^2 + \frac{10}{7}x + \frac{8}{7}$	$\text{NST} = \left\{ -\frac{2}{3}; 4 \right\}$	$S \left(\frac{5}{3} \mid \frac{7}{3} \right)$
51)	$f(x) = 28x^2 - \frac{224}{3}x + \frac{140}{3}$	$\text{NST} = \left\{ 1; \frac{5}{3} \right\}$	$S \left(\frac{4}{3} \mid -\frac{28}{9} \right)$
52)	$f(x) = \frac{900}{637}x^2 + \frac{690}{91}x + \frac{90}{13}$	$\text{NST} = \left\{ -\frac{21}{5}; -\frac{7}{6} \right\}$	$S \left(-\frac{161}{60} \mid -\frac{13}{4} \right)$
53)	$f(x) = -240x^2 - 1\,640x - 2\,800$	$\text{NST} = \left\{ -\frac{7}{2}; -\frac{10}{3} \right\}$	$S \left(-\frac{41}{12} \mid \frac{5}{3} \right)$
54)	$f(x) = \frac{81}{640}x^2 + \frac{9}{32}x - \frac{231}{160}$	$\text{NST} = \left\{ -\frac{14}{3}; \frac{22}{9} \right\}$	$S \left(-\frac{10}{9} \mid -\frac{8}{5} \right)$
55)	$f(x) = \frac{99}{100}x^2 + \frac{121}{25}x + \frac{352}{75}$	$\text{NST} = \left\{ -\frac{32}{9}; -\frac{4}{3} \right\}$	$S \left(-\frac{22}{9} \mid -\frac{11}{9} \right)$
56)	$f(x) = 171x^2 + 1\,064x + 1\,653$	$\text{NST} = \left\{ -\frac{29}{9}; -3 \right\}$	$S \left(-\frac{28}{9} \mid -\frac{19}{9} \right)$
57)	$f(x) = \frac{162}{529}x^2 - \frac{882}{529}x + \frac{936}{529}$	$\text{NST} = \left\{ \frac{13}{9}; 4 \right\}$	$S \left(\frac{49}{18} \mid -\frac{1}{2} \right)$
58)	$f(x) = -\frac{864}{169}x^2 + \frac{504}{13}x - 72$	$\text{NST} = \left\{ \frac{13}{4}; \frac{13}{3} \right\}$	$S \left(\frac{91}{24} \mid \frac{3}{2} \right)$
59)	$f(x) = \frac{36}{25}x^2 + \frac{216}{25}x + \frac{224}{25}$	$\text{NST} = \left\{ -\frac{14}{3}; -\frac{4}{3} \right\}$	$S(-3 \mid -4)$
60)	$f(x) = -\frac{4}{9}x^2 + \frac{20}{9}x - \frac{16}{9}$	$\text{NST} = \{1; 4\}$	$S \left(\frac{5}{2} \mid 1 \right)$
61)	$f(x) = -\frac{11}{18}x^2 + \frac{77}{27}x - \frac{143}{162}$	$\text{NST} = \left\{ \frac{1}{3}; \frac{13}{3} \right\}$	$S \left(\frac{7}{3} \mid \frac{22}{9} \right)$

62)	$f(x) = \frac{250}{81}x^2 + \frac{100}{9}x + \frac{50}{9}$	$\text{NST} = \left\{-3; -\frac{3}{5}\right\}$	$S\left(-\frac{9}{5} \mid -\frac{40}{9}\right)$
63)	$f(x) = \frac{4}{49}x^2 + \frac{16}{147}x - \frac{20}{49}$	$\text{NST} = \left\{-3; \frac{5}{3}\right\}$	$S\left(-\frac{2}{3} \mid -\frac{4}{9}\right)$
64)	$f(x) = -\frac{54}{169}x^2 - \frac{102}{169}x + \frac{616}{507}$	$\text{NST} = \left\{-\frac{28}{9}; \frac{11}{9}\right\}$	$S\left(-\frac{17}{18} \mid \frac{3}{2}\right)$
65)	$f(x) = -\frac{2}{21}x^2 - \frac{10}{63}x + \frac{208}{189}$	$\text{NST} = \left\{-\frac{13}{3}; \frac{8}{3}\right\}$	$S\left(-\frac{5}{6} \mid \frac{7}{6}\right)$
66)	$f(x) = -\frac{297}{2}x^2 + 1\,023x - 1\,760$	$\text{NST} = \left\{\frac{10}{3}; \frac{32}{9}\right\}$	$S\left(\frac{31}{9} \mid \frac{11}{6}\right)$
67)	$f(x) = \frac{2}{7}x^2 - \frac{2}{7}x - \frac{24}{7}$	$\text{NST} = \{-3; 4\}$	$S\left(\frac{1}{2} \mid -\frac{7}{2}\right)$
68)	$f(x) = \frac{41}{100}x^2 - \frac{41}{150}x - \frac{451}{100}$	$\text{NST} = \left\{-3; \frac{11}{3}\right\}$	$S\left(\frac{1}{3} \mid -\frac{41}{9}\right)$
69)	$f(x) = -\frac{48}{169}x^2 + \frac{184}{169}x - \frac{120}{169}$	$\text{NST} = \left\{\frac{5}{6}; 3\right\}$	$S\left(\frac{23}{12} \mid \frac{1}{3}\right)$
70)	$f(x) = -\frac{36}{25}x^2 - \frac{192}{25}x - \frac{156}{25}$	$\text{NST} = \left\{-\frac{13}{3}; -1\right\}$	$S\left(-\frac{8}{3} \mid 4\right)$
71)	$f(x) = 20x^2 - \frac{260}{3}x + \frac{280}{3}$	$\text{NST} = \left\{2; \frac{7}{3}\right\}$	$S\left(\frac{13}{6} \mid -\frac{5}{9}\right)$
72)	$f(x) = 144x^2 - 72x + 8$	$\text{NST} = \left\{\frac{1}{6}; \frac{1}{3}\right\}$	$S\left(\frac{1}{4} \mid -1\right)$
73)	$f(x) = -\frac{81}{196}x^2 + \frac{36}{49}x + \frac{33}{49}$	$\text{NST} = \left\{-\frac{2}{3}; \frac{22}{9}\right\}$	$S\left(\frac{8}{9} \mid 1\right)$
74)	$f(x) = \frac{14}{5}x^2 + \frac{84}{5}x + \frac{112}{5}$	$\text{NST} = \{-4; -2\}$	$S\left(-3 \mid -\frac{14}{5}\right)$
75)	$f(x) = -60x^2 - 90x - 30$	$\text{NST} = \left\{-1; -\frac{1}{2}\right\}$	$S\left(-\frac{3}{4} \mid \frac{15}{4}\right)$
76)	$f(x) = -\frac{81}{49}x^2 + \frac{18}{49}x + \frac{48}{49}$	$\text{NST} = \left\{-\frac{2}{3}; \frac{8}{9}\right\}$	$S\left(\frac{1}{9} \mid 1\right)$
77)	$f(x) = -\frac{20}{63}x^2 - \frac{40}{63}x + \frac{25}{7}$	$\text{NST} = \left\{-\frac{9}{2}; \frac{5}{2}\right\}$	$S\left(-1 \mid \frac{35}{9}\right)$
78)	$f(x) = -\frac{3}{4}x^2 - 2x - 1$	$\text{NST} = \left\{-2; -\frac{2}{3}\right\}$	$S\left(-\frac{4}{3} \mid \frac{1}{3}\right)$
79)	$f(x) = \frac{144}{5}x^2 - \frac{912}{5}x + 288$	$\text{NST} = \left\{3; \frac{10}{3}\right\}$	$S\left(\frac{19}{6} \mid -\frac{4}{5}\right)$
80)	$f(x) = \frac{375}{98}x^2 - 25x + \frac{75}{2}$	$\text{NST} = \left\{\frac{7}{3}; \frac{21}{5}\right\}$	$S\left(\frac{49}{15} \mid -\frac{10}{3}\right)$
81)	$f(x) = 28x^2 + 182x + 294$	$\text{NST} = \left\{-\frac{7}{2}; -3\right\}$	$S\left(-\frac{13}{4} \mid -\frac{7}{4}\right)$
82)	$f(x) = \frac{425}{36}x^2 + \frac{170}{3}x + \frac{255}{4}$	$\text{NST} = \left\{-3; -\frac{9}{5}\right\}$	$S\left(-\frac{12}{5} \mid -\frac{17}{4}\right)$

83)	$f(x) = 72x^2 + 108x + 36$	$\text{NST} = \left\{-1; -\frac{1}{2}\right\}$	$S\left(-\frac{3}{4} \mid -\frac{9}{2}\right)$
84)	$f(x) = \frac{9}{49}x^2 + \frac{69}{49}x + \frac{120}{49}$	$\text{NST} = \left\{-5; -\frac{8}{3}\right\}$	$S\left(-\frac{23}{6} \mid -\frac{1}{4}\right)$
85)	$f(x) = \frac{1}{4}x^2 - 2x + \frac{15}{4}$	$\text{NST} = \{3; 5\}$	$S\left(4 \mid -\frac{1}{4}\right)$
86)	$f(x) = -\frac{16}{33}x^2 + \frac{40}{33}x + \frac{32}{11}$	$\text{NST} = \left\{-\frac{3}{2}; 4\right\}$	$S\left(\frac{5}{4} \mid \frac{11}{3}\right)$
87)	$f(x) = -\frac{176}{75}x^2 + \frac{968}{75}x - \frac{352}{25}$	$\text{NST} = \left\{\frac{3}{2}; 4\right\}$	$S\left(\frac{11}{4} \mid \frac{11}{3}\right)$
88)	$f(x) = -\frac{16}{121}x^2 - \frac{24}{121}x + \frac{112}{121}$	$\text{NST} = \left\{-\frac{7}{2}; 2\right\}$	$S\left(-\frac{3}{4} \mid 1\right)$
89)	$f(x) = -\frac{184}{147}x^2 - \frac{184}{147}x + \frac{345}{98}$	$\text{NST} = \left\{-\frac{9}{4}; \frac{5}{4}\right\}$	$S\left(-\frac{1}{2} \mid \frac{23}{6}\right)$
90)	$f(x) = -\frac{50}{169}x^2 + \frac{160}{169}x + \frac{210}{169}$	$\text{NST} = \left\{-1; \frac{21}{5}\right\}$	$S\left(\frac{8}{5} \mid 2\right)$
91)	$f(x) = -\frac{72}{289}x^2 + \frac{48}{289}x + \frac{570}{289}$	$\text{NST} = \left\{-\frac{5}{2}; \frac{19}{6}\right\}$	$S\left(\frac{1}{3} \mid 2\right)$
92)	$f(x) = -\frac{100}{81}x^2 - \frac{40}{81}x + \frac{320}{81}$	$\text{NST} = \left\{-2; \frac{8}{5}\right\}$	$S\left(-\frac{1}{5} \mid 4\right)$
93)	$f(x) = \frac{64}{75}x^2 + \frac{64}{15}x + 4$	$\text{NST} = \left\{-\frac{15}{4}; -\frac{5}{4}\right\}$	$S\left(-\frac{5}{2} \mid -\frac{4}{3}\right)$
94)	$f(x) = -\frac{20}{49}x^2 - \frac{100}{147}x + \frac{40}{147}$	$\text{NST} = \left\{-2; \frac{1}{3}\right\}$	$S\left(-\frac{5}{6} \mid \frac{5}{9}\right)$
95)	$f(x) = \frac{14}{9}x^2 - \frac{266}{27}x + \frac{980}{81}$	$\text{NST} = \left\{\frac{5}{3}; \frac{14}{3}\right\}$	$S\left(\frac{19}{6} \mid -\frac{7}{2}\right)$
96)	$f(x) = \frac{81}{256}x^2 + \frac{9}{128}x - \frac{63}{256}$	$\text{NST} = \left\{-1; \frac{7}{9}\right\}$	$S\left(-\frac{1}{9} \mid -\frac{1}{4}\right)$
97)	$f(x) = -\frac{81}{4}x^2 + 180x - 396$	$\text{NST} = \left\{4; \frac{44}{9}\right\}$	$S\left(\frac{40}{9} \mid 4\right)$
98)	$f(x) = -\frac{168}{169}x^2 - \frac{952}{169}x - \frac{560}{169}$	$\text{NST} = \left\{-5; -\frac{2}{3}\right\}$	$S\left(-\frac{17}{6} \mid \frac{14}{3}\right)$
99)	$f(x) = \frac{48}{169}x^2 + \frac{180}{169}x + \frac{42}{169}$	$\text{NST} = \left\{-\frac{7}{2}; -\frac{1}{4}\right\}$	$S\left(-\frac{15}{8} \mid -\frac{3}{4}\right)$
100)	$f(x) = \frac{54}{7}x^2 - \frac{156}{7}x + \frac{80}{7}$	$\text{NST} = \left\{\frac{2}{3}; \frac{20}{9}\right\}$	$S\left(\frac{13}{9} \mid -\frac{14}{3}\right)$
101)	$f(x) = -\frac{108}{5}x^2 + \frac{414}{5}x - \frac{378}{5}$	$\text{NST} = \left\{\frac{3}{2}; \frac{7}{3}\right\}$	$S\left(\frac{23}{12} \mid \frac{15}{4}\right)$
102)	$f(x) = -\frac{320}{169}x^2 + \frac{400}{169}x + \frac{720}{169}$	$\text{NST} = \left\{-1; \frac{9}{4}\right\}$	$S\left(\frac{5}{8} \mid 5\right)$
103)	$f(x) = -\frac{32}{961}x^2 + \frac{8}{961}x + \frac{480}{961}$	$\text{NST} = \left\{-\frac{15}{4}; 4\right\}$	$S\left(\frac{1}{8} \mid \frac{1}{2}\right)$

104)	$f(x) = \frac{27}{125}x^2 - \frac{18}{125}x - \frac{72}{125}$	$\text{NST} = \left\{ -\frac{4}{3}; 2 \right\}$	$S \left(\frac{1}{3} \mid -\frac{3}{5} \right)$
105)	$f(x) = -648x^2 + 3960x - 6048$	$\text{NST} = \left\{ 3; \frac{28}{9} \right\}$	$S \left(\frac{55}{18} \mid 2 \right)$
106)	$f(x) = \frac{25}{288}x^2 - \frac{5}{48}x - \frac{15}{32}$	$\text{NST} = \left\{ -\frac{9}{5}; 3 \right\}$	$S \left(\frac{3}{5} \mid -\frac{1}{2} \right)$
107)	$f(x) = -48x^2 - 176x - 160$	$\text{NST} = \left\{ -2; -\frac{5}{3} \right\}$	$S \left(-\frac{11}{6} \mid \frac{4}{3} \right)$
108)	$f(x) = \frac{68}{81}x^2 - \frac{68}{81}x - \frac{136}{81}$	$\text{NST} = \{-1; 2\}$	$S \left(\frac{1}{2} \mid -\frac{17}{9} \right)$
109)	$f(x) = -96x^2 + 272x - 192$	$\text{NST} = \left\{ \frac{4}{3}; \frac{3}{2} \right\}$	$S \left(\frac{17}{12} \mid \frac{2}{3} \right)$
110)	$f(x) = 8505x^2 - 9828x + 2835$	$\text{NST} = \left\{ \frac{5}{9}; \frac{3}{5} \right\}$	$S \left(\frac{26}{45} \mid -\frac{21}{5} \right)$
111)	$f(x) = \frac{108}{49}x^2 - \frac{72}{7}x + 9$	$\text{NST} = \left\{ \frac{7}{6}; \frac{7}{2} \right\}$	$S \left(\frac{7}{3} \mid -3 \right)$
112)	$f(x) = -\frac{25}{196}x^2 - \frac{15}{98}x + \frac{187}{196}$	$\text{NST} = \left\{ -\frac{17}{5}; \frac{11}{5} \right\}$	$S \left(-\frac{3}{5} \mid 1 \right)$
113)	$f(x) = \frac{24}{25}x^2 + \frac{64}{25}x - \frac{24}{25}$	$\text{NST} = \left\{ -3; \frac{1}{3} \right\}$	$S \left(-\frac{4}{3} \mid -\frac{8}{3} \right)$
114)	$f(x) = -64x^2 + 352x - 480$	$\text{NST} = \left\{ \frac{5}{2}; 3 \right\}$	$S \left(\frac{11}{4} \mid 4 \right)$
115)	$f(x) = -\frac{351}{128}x^2 + \frac{195}{32}x - \frac{39}{32}$	$\text{NST} = \left\{ \frac{2}{9}; 2 \right\}$	$S \left(\frac{10}{9} \mid \frac{13}{6} \right)$
116)	$f(x) = \frac{112}{27}x^2 + \frac{280}{9}x + 56$	$\text{NST} = \left\{ -\frac{9}{2}; -3 \right\}$	$S \left(-\frac{15}{4} \mid -\frac{7}{3} \right)$
117)	$f(x) = -\frac{81}{784}x^2 + \frac{99}{392}x + \frac{75}{784}$	$\text{NST} = \left\{ -\frac{1}{3}; \frac{25}{9} \right\}$	$S \left(\frac{11}{9} \mid \frac{1}{4} \right)$
118)	$f(x) = \frac{125}{24}x^2 - \frac{175}{6}x + \frac{75}{2}$	$\text{NST} = \left\{ 2; \frac{18}{5} \right\}$	$S \left(\frac{14}{5} \mid -\frac{10}{3} \right)$
119)	$f(x) = 2025x^2 + 19620x + 47520$	$\text{NST} = \left\{ -\frac{44}{9}; -\frac{24}{5} \right\}$	$S \left(-\frac{218}{45} \mid -4 \right)$
120)	$f(x) = 4x^2 + \frac{68}{3}x + \frac{253}{9}$	$\text{NST} = \left\{ -\frac{23}{6}; -\frac{11}{6} \right\}$	$S \left(-\frac{17}{6} \mid -4 \right)$
121)	$f(x) = -\frac{25}{144}x^2 - \frac{5}{9}x + \frac{5}{9}$	$\text{NST} = \left\{ -4; \frac{4}{5} \right\}$	$S \left(-\frac{8}{5} \mid 1 \right)$
122)	$f(x) = -5508x^2 - 13158x - 7854$	$\text{NST} = \left\{ -\frac{11}{9}; -\frac{7}{6} \right\}$	$S \left(-\frac{43}{36} \mid \frac{17}{4} \right)$
123)	$f(x) = 216x^2 + 1260x + 1836$	$\text{NST} = \left\{ -3; -\frac{17}{6} \right\}$	$S \left(-\frac{35}{12} \mid -\frac{3}{2} \right)$
124)	$f(x) = -\frac{81}{980}x^2 + \frac{117}{490}x + \frac{27}{980}$	$\text{NST} = \left\{ -\frac{1}{9}; 3 \right\}$	$S \left(\frac{13}{9} \mid \frac{1}{5} \right)$

125)	$f(x) = 19x^2 + 76x + \frac{285}{4}$	$\text{NST} = \left\{ -\frac{5}{2}; -\frac{3}{2} \right\}$	$S \left(-2 \mid -\frac{19}{4} \right)$
126)	$f(x) = -\frac{25}{13}x^2 - \frac{135}{13}x - \frac{140}{13}$	$\text{NST} = \left\{ -4; -\frac{7}{5} \right\}$	$S \left(-\frac{27}{10} \mid \frac{13}{4} \right)$
127)	$f(x) = -\frac{11}{5}x^2 + \frac{11}{5}$	$\text{NST} = \{-1; 1\}$	$S \left(0 \mid \frac{11}{5} \right)$
128)	$f(x) = \frac{602}{825}x^2 + \frac{121}{182}x - \frac{708}{383}$	$\text{NST} = \left\{ -\frac{19}{9}; \frac{6}{5} \right\}$	$S \left(-\frac{41}{90} \mid -2 \right)$
129)	$f(x) = 4800x^2 + 1760x + 160$	$\text{NST} = \left\{ -\frac{1}{5}; -\frac{1}{6} \right\}$	$S \left(-\frac{11}{60} \mid -\frac{4}{3} \right)$
130)	$f(x) = \frac{144}{5}x^2 + \frac{384}{5}x + 48$	$\text{NST} = \left\{ -\frac{5}{3}; -1 \right\}$	$S \left(-\frac{4}{3} \mid -\frac{16}{5} \right)$
131)	$f(x) = -\sqrt{\frac{440}{329}}x^2 + \sqrt{\frac{376}{539}}x + \sqrt{\frac{770}{423}}$	$\text{NST} = \left\{ -\frac{7}{9}; \frac{3}{2} \right\}$	$S \left(\frac{13}{36} \mid \frac{3}{2} \right)$
132)	$f(x) = -\frac{27}{50}x^2 - \frac{72}{25}x - \frac{117}{50}$	$\text{NST} = \left\{ -\frac{13}{3}; -1 \right\}$	$S \left(-\frac{8}{3} \mid \frac{3}{2} \right)$
133)	$f(x) = \frac{12}{25}x^2 + \frac{92}{25}x + \frac{168}{25}$	$\text{NST} = \left\{ -\frac{14}{3}; -3 \right\}$	$S \left(-\frac{23}{6} \mid -\frac{1}{3} \right)$
134)	$f(x) = \frac{128}{315}x^2 + \frac{32}{105}x - \frac{96}{35}$	$\text{NST} = \left\{ -3; \frac{9}{4} \right\}$	$S \left(-\frac{3}{8} \mid -\frac{14}{5} \right)$
135)	$f(x) = -\frac{75}{121}x^2 + \frac{130}{121}x + \frac{105}{121}$	$\text{NST} = \left\{ -\frac{3}{5}; \frac{7}{3} \right\}$	$S \left(\frac{13}{15} \mid \frac{4}{3} \right)$
136)	$f(x) = \frac{96}{25}x^2 + 24x + 36$	$\text{NST} = \left\{ -\frac{15}{4}; -\frac{5}{2} \right\}$	$S \left(-\frac{25}{8} \mid -\frac{3}{2} \right)$
137)	$f(x) = -\frac{11}{50}x^2 + \frac{22}{9}$	$\text{NST} = \left\{ -\frac{10}{3}; \frac{10}{3} \right\}$	$S \left(0 \mid \frac{22}{9} \right)$
138)	$f(x) = -\frac{144}{289}x^2 - \frac{600}{289}x - \frac{336}{289}$	$\text{NST} = \left\{ -\frac{7}{2}; -\frac{2}{3} \right\}$	$S \left(-\frac{25}{12} \mid 1 \right)$
139)	$f(x) = \frac{96}{175}x^2 + \frac{16}{35}x - \frac{32}{7}$	$\text{NST} = \left\{ -\frac{10}{3}; \frac{5}{2} \right\}$	$S \left(-\frac{5}{12} \mid -\frac{14}{3} \right)$
140)	$f(x) = \frac{81}{125}x^2 + \frac{486}{125}x + \frac{504}{125}$	$\text{NST} = \left\{ -\frac{14}{3}; -\frac{4}{3} \right\}$	$S \left(-3 \mid -\frac{9}{5} \right)$
141)	$f(x) = -\frac{208}{405}x^2 + \frac{104}{81}x + \frac{728}{405}$	$\text{NST} = \left\{ -1; \frac{7}{2} \right\}$	$S \left(\frac{5}{4} \mid \frac{13}{5} \right)$
142)	$f(x) = -\frac{92}{125}x^2 + \frac{276}{125}x + \frac{368}{125}$	$\text{NST} = \{-1; 4\}$	$S \left(\frac{3}{2} \mid \frac{23}{5} \right)$
143)	$f(x) = -\frac{27}{4}x^2 - 30x - 32$	$\text{NST} = \left\{ -\frac{8}{3}; -\frac{16}{9} \right\}$	$S \left(-\frac{20}{9} \mid \frac{4}{3} \right)$
144)	$f(x) = -\frac{81}{256}x^2 + \frac{27}{32}x + \frac{55}{16}$	$\text{NST} = \left\{ -\frac{20}{9}; \frac{44}{9} \right\}$	$S \left(\frac{4}{3} \mid 4 \right)$
145)	$f(x) = -\frac{144}{169}x^2 + \frac{456}{169}x - \frac{192}{169}$	$\text{NST} = \left\{ \frac{1}{2}; \frac{8}{3} \right\}$	$S \left(\frac{19}{12} \mid 1 \right)$

146)	$f(x) = \frac{50}{289}x^2 - \frac{30}{289}x - \frac{140}{289}$	$\text{NST} = \left\{ -\frac{7}{5}; 2 \right\}$	$S\left(\frac{3}{10} \mid -\frac{1}{2}\right)$
147)	$f(x) = \frac{32}{135}x^2 + \frac{112}{135}x - \frac{64}{135}$	$\text{NST} = \left\{ -4; \frac{1}{2} \right\}$	$S\left(-\frac{7}{4} \mid -\frac{6}{5}\right)$
148)	$f(x) = \frac{27}{50}x^2 - \frac{81}{25}x + \frac{84}{25}$	$\text{NST} = \left\{ \frac{4}{3}; \frac{14}{3} \right\}$	$S\left(3 \mid -\frac{3}{2}\right)$
149)	$f(x) = \frac{17}{5}x^2 - \frac{68}{5}x + \frac{51}{5}$	$\text{NST} = \{1; 3\}$	$S\left(2 \mid -\frac{17}{5}\right)$
150)	$f(x) = -8x^2 + 68x - 140$	$\text{NST} = \left\{ \frac{7}{2}; 5 \right\}$	$S\left(\frac{17}{4} \mid \frac{9}{2}\right)$
151)	$f(x) = \frac{45}{841}x^2 + \frac{204}{841}x + \frac{63}{841}$	$\text{NST} = \left\{ -\frac{21}{5}; -\frac{1}{3} \right\}$	$S\left(-\frac{34}{15} \mid -\frac{1}{5}\right)$
152)	$f(x) = -\frac{144}{125}x^2 - \frac{216}{25}x - \frac{72}{5}$	$\text{NST} = \left\{ -5; -\frac{5}{2} \right\}$	$S\left(-\frac{15}{4} \mid \frac{9}{5}\right)$
153)	$f(x) = \frac{13}{150}x^2 - \frac{13}{6}$	$\text{NST} = \{-5; 5\}$	$S\left(0 \mid -\frac{13}{6}\right)$
154)	$f(x) = -\frac{112}{289}x^2 + \frac{504}{289}x - \sqrt{\frac{251}{179}}$	$\text{NST} = \left\{ \frac{5}{6}; \frac{11}{3} \right\}$	$S\left(\frac{9}{4} \mid \frac{7}{9}\right)$
155)	$f(x) = \frac{90}{49}x^2 - \frac{30}{49}x - \frac{120}{49}$	$\text{NST} = \left\{ -1; \frac{4}{3} \right\}$	$S\left(\frac{1}{6} \mid -\frac{5}{2}\right)$
156)	$f(x) = -16x^2 + 144x - 320$	$\text{NST} = \{4; 5\}$	$S\left(\frac{9}{2} \mid 4\right)$
157)	$f(x) = -\frac{32}{7}x^2 - \frac{88}{7}x - \frac{36}{7}$	$\text{NST} = \left\{ -\frac{9}{4}; -\frac{1}{2} \right\}$	$S\left(-\frac{11}{8} \mid \frac{7}{2}\right)$
158)	$f(x) = -\frac{1}{3}x^2 + \frac{10}{27}x + \frac{299}{243}$	$\text{NST} = \left\{ -\frac{13}{9}; \frac{23}{9} \right\}$	$S\left(\frac{5}{9} \mid \frac{4}{3}\right)$
159)	$f(x) = -\frac{27}{80}x^2 + \frac{63}{40}x - \frac{99}{80}$	$\text{NST} = \left\{ 1; \frac{11}{3} \right\}$	$S\left(\frac{7}{3} \mid \frac{3}{5}\right)$
160)	$f(x) = -\frac{25}{84}x^2 - \frac{10}{21}x + \frac{15}{7}$	$\text{NST} = \left\{ -\frac{18}{5}; 2 \right\}$	$S\left(-\frac{4}{5} \mid \frac{7}{3}\right)$
161)	$f(x) = -\frac{20}{81}x^2 - \frac{20}{81}x + \frac{400}{81}$	$\text{NST} = \{-5; 4\}$	$S\left(-\frac{1}{2} \mid 5\right)$
162)	$f(x) = \frac{64}{25}x^2 - \frac{208}{75}x + \frac{16}{25}$	$\text{NST} = \left\{ \frac{1}{3}; \frac{3}{4} \right\}$	$S\left(\frac{13}{24} \mid -\frac{1}{9}\right)$
163)	$f(x) = -24\,300x^2 + 232\,740x - 557\,280$	$\text{NST} = \left\{ \frac{43}{9}; \frac{24}{5} \right\}$	$S\left(\frac{431}{90} \mid 3\right)$
164)	$f(x) = -25x^2 - 140x - 195$	$\text{NST} = \left\{ -3; -\frac{13}{5} \right\}$	$S\left(-\frac{14}{5} \mid 1\right)$
165)	$f(x) = -\frac{72}{5}x^2 + \frac{132}{5}x - \frac{48}{5}$	$\text{NST} = \left\{ \frac{1}{2}; \frac{4}{3} \right\}$	$S\left(\frac{11}{12} \mid \frac{5}{2}\right)$
166)	$f(x) = \frac{88}{3}x^2 + \frac{836}{3}x + 660$	$\text{NST} = \left\{ -5; -\frac{9}{2} \right\}$	$S\left(-\frac{19}{4} \mid -\frac{11}{6}\right)$

167)	$f(x) = \frac{48}{125}x^2 + \frac{184}{125}x - \frac{32}{125}$	$\text{NST} = \left\{-4; \frac{1}{6}\right\}$	$S\left(-\frac{23}{12} \mid -\frac{5}{3}\right)$
168)	$f(x) = \frac{7}{5}x^2 - 7x + \frac{147}{20}$	$\text{NST} = \left\{\frac{3}{2}; \frac{7}{2}\right\}$	$S\left(\frac{5}{2} \mid -\frac{7}{5}\right)$
169)	$f(x) = 405x^2 + 765x + 360$	$\text{NST} = \left\{-1; -\frac{8}{9}\right\}$	$S\left(-\frac{17}{18} \mid -\frac{5}{4}\right)$
170)	$f(x) = \frac{63}{2}x^2 - 84x + \frac{105}{2}$	$\text{NST} = \left\{1; \frac{5}{3}\right\}$	$S\left(\frac{4}{3} \mid -\frac{7}{2}\right)$
171)	$f(x) = \frac{16}{9}x^2 - 4$	$\text{NST} = \left\{-\frac{3}{2}; \frac{3}{2}\right\}$	$S(0 \mid -4)$
172)	$f(x) = \frac{64}{45}x^2 + \frac{464}{45}x + \frac{152}{9}$	$\text{NST} = \left\{-\frac{19}{4}; -\frac{5}{2}\right\}$	$S\left(-\frac{29}{8} \mid -\frac{9}{5}\right)$
173)	$f(x) = -\frac{16}{81}x^2 - \frac{64}{81}x + \frac{80}{81}$	$\text{NST} = \{-5; 1\}$	$S\left(-2 \mid \frac{16}{9}\right)$
174)	$f(x) = -\frac{25}{338}x^2 + \frac{35}{169}x + \frac{60}{169}$	$\text{NST} = \left\{-\frac{6}{5}; 4\right\}$	$S\left(\frac{7}{5} \mid \frac{1}{2}\right)$
175)	$f(x) = -\frac{48}{11}x^2 - \frac{328}{11}x - \frac{520}{11}$	$\text{NST} = \left\{-\frac{13}{3}; -\frac{5}{2}\right\}$	$S\left(-\frac{41}{12} \mid \frac{11}{3}\right)$
176)	$f(x) = 768x^2 - 1088x + 384$	$\text{NST} = \left\{\frac{2}{3}; \frac{3}{4}\right\}$	$S\left(\frac{17}{24} \mid -\frac{4}{3}\right)$
177)	$f(x) = -\frac{351}{50}x^2 - \frac{78}{5}x - \frac{13}{2}$	$\text{NST} = \left\{-\frac{5}{3}; -\frac{5}{9}\right\}$	$S\left(-\frac{10}{9} \mid \frac{13}{6}\right)$
178)	$f(x) = \frac{200}{729}x^2 + \frac{40}{243}x - \frac{160}{81}$	$\text{NST} = \left\{-3; \frac{12}{5}\right\}$	$S\left(-\frac{3}{10} \mid -2\right)$
179)	$f(x) = -\frac{16}{45}x^2 - \frac{8}{9}x + \frac{56}{45}$	$\text{NST} = \left\{-\frac{7}{2}; 1\right\}$	$S\left(-\frac{5}{4} \mid \frac{9}{5}\right)$
180)	$f(x) = -\frac{29}{4}x^2 + \frac{145}{6}x - \frac{203}{12}$	$\text{NST} = \left\{1; \frac{7}{3}\right\}$	$S\left(\frac{5}{3} \mid \frac{29}{9}\right)$
181)	$f(x) = -\frac{48}{49}x^2 - \frac{184}{49}x - \frac{160}{49}$	$\text{NST} = \left\{-\frac{5}{2}; -\frac{4}{3}\right\}$	$S\left(-\frac{23}{12} \mid \frac{1}{3}\right)$
182)	$f(x) = -\frac{1}{36}x^2 + \frac{1}{27}x + \frac{35}{81}$	$\text{NST} = \left\{-\frac{10}{3}; \frac{14}{3}\right\}$	$S\left(\frac{2}{3} \mid \frac{4}{9}\right)$
183)	$f(x) = \frac{351}{242}x^2 - \frac{78}{11}x + \frac{13}{2}$	$\text{NST} = \left\{\frac{11}{9}; \frac{11}{3}\right\}$	$S\left(\frac{22}{9} \mid -\frac{13}{6}\right)$
184)	$f(x) = -\frac{136}{507}x^2 + \frac{340}{507}x + \frac{408}{169}$	$\text{NST} = \left\{-2; \frac{9}{2}\right\}$	$S\left(\frac{5}{4} \mid \frac{17}{6}\right)$
185)	$f(x) = \frac{99}{160}x^2 - \frac{33}{40}x - \frac{33}{8}$	$\text{NST} = \left\{-2; \frac{10}{3}\right\}$	$S\left(\frac{2}{3} \mid -\frac{22}{5}\right)$
186)	$f(x) = -\frac{96}{289}x^2 + \frac{992}{867}x + \sqrt{\frac{834}{295}}$	$\text{NST} = \left\{-\frac{10}{9}; \frac{41}{9}\right\}$	$S\left(\frac{31}{18} \mid \frac{8}{3}\right)$
187)	$f(x) = -\frac{36}{5}x^2 - \frac{212}{5}x - \frac{560}{9}$	$\text{NST} = \left\{-\frac{28}{9}; -\frac{25}{9}\right\}$	$S\left(-\frac{53}{18} \mid \frac{1}{5}\right)$

188)	$f(x) = \frac{25}{6}x^2 + \frac{25}{9}x - \frac{100}{27}$	$\text{NST} = \left\{ -\frac{4}{3}; \frac{2}{3} \right\}$	$S\left(-\frac{1}{3} \mid -\frac{25}{6}\right)$
189)	$f(x) = -\frac{108}{961}x^2 + \frac{60}{961}x + \frac{312}{961}$	$\text{NST} = \left\{ -\frac{13}{9}; 2 \right\}$	$S\left(\frac{5}{18} \mid \frac{1}{3}\right)$
190)	$f(x) = -\sqrt{\frac{19}{6}}x^2 + \frac{205}{48}x + \frac{287}{144}$	$\text{NST} = \left\{ -\frac{2}{5}; \frac{14}{5} \right\}$	$S\left(\frac{6}{5} \mid \frac{41}{9}\right)$
191)	$f(x) = \frac{55}{18}x^2 + \frac{154}{9}x + \frac{176}{9}$	$\text{NST} = \left\{ -4; -\frac{8}{5} \right\}$	$S\left(-\frac{14}{5} \mid -\frac{22}{5}\right)$
192)	$f(x) = \frac{432}{289}x^2 - \frac{648}{289}x - \frac{624}{289}$	$\text{NST} = \left\{ -\frac{2}{3}; \frac{13}{6} \right\}$	$S\left(\frac{3}{4} \mid -3\right)$