Quadratische Funktionen

Ganzzahlige Koeffizienten und Lösungen

01)	$f(x) = -10x^2 - 20x + 30$	$\text{NST} = \{-3; 1\}$	$S\,(-1 \mid 40)$
02)	$f(x) = -9x^2 + 18x + 27$	$\text{NST} = \{-1; 3\}$	$S\,(1 \mid 36)$
03)	$f(x) = -6x^2 + 12x + 18$	$\text{NST} = \{-1; 3\}$	$S\,(1 \mid 24)$
04)	$f(x) = -5x^2 - 30x - 25$	$\text{NST} = \{-5; -1\}$	$S\,(-3 \mid 20)$
05)	$f(x) = -4x^2 + 24x - 20$	$\text{NST} = \{1; 5\}$	$S\,(3 \mid 16)$
06)	$f(x) = -4x^2 + 24x - 32$	$\text{NST} = \{2; 4\}$	$S\,(3 \mid 4)$
07)	$f(x) = -3x^2 + 12x$	$\text{NST} = \{0; 4\}$	$S\,(2 \mid 12)$
08)	$f(x) = -3x^2 + 12x + 36$	$\text{NST} = \{-2; 6\}$	$S\,(2 \mid 48)$
09)	$f(x) = -3x^2 + 24x - 36$	$\text{NST} = \{2; 6\}$	$S\,(4 \mid 12)$
10)	$f(x) = -3x^2 - 6x - 3$	$\text{NST} = \{-1\}$	$S\,(-1 \mid 0)$
11)	$f(x) = -3x^2 - 6x + 45$	$\text{NST} = \{-5; 3\}$	$S\,(-1 \mid 48)$
12)	$f(x) = -3x^2 + 6x + 9$	$\text{NST} = \{-1; 3\}$	$S\,(1 \mid 12)$
13)	$f(x) = -2x^2 - 12x - 10$	$\text{NST} = \{-5; -1\}$	$S\,(-3 \mid 8)$
14)	$f(x) = -2x^2 + 12x + 32$	$\text{NST} = \{-2; 8\}$	$S\,(3 \mid 50)$
15)	$f(x) = -2x^2 + 16x - 14$	$\text{NST} = \{1; 7\}$	$S\,(4 \mid 18)$
16)	$f(x) = -2x^2 + 16x + 18$	$\text{NST} = \{-1; 9\}$	$S\,(4 \mid 50)$
17)	$f(x) = -2x^2 - 20x - 42$	$\text{NST} = \{-7; -3\}$	$S\,(-5 \mid 8)$
18)	$f(x) = -2x^2 - 20x - 50$	$\text{NST} = \{-5\}$	$S\,(-5 \mid 0)$
19)	$f(x) = -2x^2 + 8x + 10$	$\text{NST} = \{-1; 5\}$	$S\,(2 \mid 18)$
20)	$f(x) = -x^2 + 10x + 11$	$\text{NST} = \{-1; 11\}$	$S\,(5 \mid 36)$
21)	$f(x) = -x^2 + 10x - 21$	$\text{NST} = \{3; 7\}$	$S\,(5 \mid 4)$
22)	$f(x) = -x^2 - 10x - 24$	$\text{NST} = \{-6; -4\}$	$S\,(-5 \mid 1)$
23)	$f(x) = -x^2 - 12x + 13$	$\text{NST} = \{-13; 1\}$	$S\,(-6 \mid 49)$
24)	$f(x) = -x^2 + 12x - 35$	$\text{NST} = \{5; 7\}$	$S\,(6 \mid 1)$
25)	$f(x) = -x^2 - 14x - 48$	$\text{NST} = \{-8; -6\}$	$S\,(-7 \mid 1)$
26)	$f(x) = -x^2 - 14x - 49$	$\text{NST} = \{-7\}$	$S\,(-7 \mid 0)$
27)	$f(x) = -x^2 - 16x - 48$	$\text{NST} = \{-12; -4\}$	$S\,(-8 \mid 16)$
28)	$f(x) = -x^2 + 2x + 24$	$\text{NST} = \{-4; 6\}$	$S\,(1 \mid 25)$
29)	$f(x) = -x^2 + 2x + 35$	$\text{NST} = \{-5; 7\}$	$S\,(1 \mid 36)$
30)	$f(x) = -x^2 - 4x + 5$	$\text{NST} = \{-5; 1\}$	$S\,(-2 \mid 9)$

31)	$f(x) = -x^2 + 6x + 16$	NST $= \{-2; 8\}$	$S\,(3 \mid 25)$
32)	$f(x) = -x^2 + 6x + 27$	NST $= \{-3; 9\}$	$S\,(3 \mid 36)$
33)	$f(x) = -x^2 - 6x - 8$	NST $= \{-4; -2\}$	$S\,(-3 \mid 1)$
34)	$f(x) = -x^2 + 8x + 33$	NST $= \{-3; 11\}$	$S\,(4 \mid 49)$
35)	$f(x) = x^2 - 10x + 24$	NST $= \{4; 6\}$	$S\,(5 \mid -1)$
36)	$f(x) = x^2 - 12x + 20$	NST $= \{2; 10\}$	$S\,(6 \mid -16)$
37)	$f(x) = x^2 + 12x + 35$	NST $= \{-7; -5\}$	$S\,(-6 \mid -1)$
38)	$f(x) = x^2 + 14x$	NST $= \{-14; 0\}$	$S\,(-7 \mid -49)$
39)	$f(x) = x^2 - 14x + 33$	NST $= \{3; 11\}$	$S\,(7 \mid -16)$
40)	$f(x) = x^2 + 2x - 3$	NST $= \{-3; 1\}$	$S\,(-1 \mid -4)$
41)	$f(x) = x^2 - 6x$	NST $= \{0; 6\}$	$S\,(3 \mid -9)$
42)	$f(x) = x^2 + 8x - 20$	NST $= \{-10; 2\}$	$S\,(-4 \mid -36)$
43)	$f(x) = x^2 - 8x - 20$	NST $= \{-2; 10\}$	$S\,(4 \mid -36)$
44)	$f(x) = x^2 + 8x + 7$	NST $= \{-7; -1\}$	$S\,(-4 \mid -9)$
45)	$f(x) = x^2 - 8x + 7$	NST $= \{1; 7\}$	$S\,(4 \mid -9)$
46)	$f(x) = x^2 - 8x - 9$	NST $= \{-1; 9\}$	$S\,(4 \mid -25)$
47)	$f(x) = 2x^2 - 12x - 14$	NST $= \{-1; 7\}$	$S\,(3 \mid -32)$
48)	$f(x) = 2x^2 - 12x - 32$	NST $= \{-2; 8\}$	$S\,(3 \mid -50)$
49)	$f(x) = 2x^2 - 16x$	NST $= \{0; 8\}$	$S\,(4 \mid -32)$
50)	$f(x) = 2x^2 + 20x + 48$	NST $= \{-6; -4\}$	$S\,(-5 \mid -2)$
51)	$f(x) = 2x^2 - 4x + 2$	NST $= \{1\}$	$S\,(1 \mid 0)$
52)	$f(x) = 2x^2 + 8x - 24$	NST $= \{-6; 2\}$	$S\,(-2 \mid -32)$
53)	$f(x) = 3x^2 - 18x + 24$	NST $= \{2; 4\}$	$S\,(3 \mid -3)$
54)	$f(x) = 3x^2 - 24x + 48$	NST $= \{4\}$	$S\,(4 \mid 0)$
55)	$f(x) = 4x^2 - 16x + 12$	NST $= \{1; 3\}$	$S\,(2 \mid -4)$
56)	$f(x) = 4x^2 - 16x - 20$	NST $= \{-1; 5\}$	$S\,(2 \mid -36)$
57)	$f(x) = 5x^2 - 10x - 15$	NST $= \{-1; 3\}$	$S\,(1 \mid -20)$
58)	$f(x) = 5x^2 + 30x + 25$	NST $= \{-5; -1\}$	$S\,(-3 \mid -20)$
59)	$f(x) = 6x^2 - 12x - 18$	NST $= \{-1; 3\}$	$S\,(1 \mid -24)$
60)	$f(x) = 7x^2 + 14x$	NST $= \{-2; 0\}$	$S\,(-1 \mid -7)$
61)	$f(x) = 9x^2 + 36x$	NST $= \{-4; 0\}$	$S\,(-2 \mid -36)$
62)	$f(x) = 10x^2 + 40x + 30$	NST $= \{-3; -1\}$	$S\,(-2 \mid -10)$
63)	$f(x) = 10x^2 + 40x + 40$	NST $= \{-2\}$	$S\,(-2 \mid 0)$

Rationale Koeffizienten und Lösungen

01)	$f(x) = -\frac{39}{8}x^2 + 13x - \frac{13}{2}$	$\text{NST} = \left\{\frac{2}{3}; 2\right\}$	$S\left(\frac{4}{3} \,\middle|\, \frac{13}{6}\right)$
02)	$f(x) = -\frac{32}{3}x^2 - \frac{32}{9}x + \frac{64}{27}$	$\text{NST} = \left\{-\frac{2}{3}; \frac{1}{3}\right\}$	$S\left(-\frac{1}{6} \,\middle|\, \frac{8}{3}\right)$
03)	$f(x) = -\frac{25}{4}x^2 - 15x - \frac{35}{4}$	$\text{NST} = \left\{-\frac{7}{5}; -1\right\}$	$S\left(-\frac{6}{5} \,\middle|\, \frac{1}{4}\right)$
04)	$f(x) = -\frac{19}{4}x^2 - \frac{38}{3}x - \frac{19}{3}$	$\text{NST} = \left\{-2; -\frac{2}{3}\right\}$	$S\left(-\frac{4}{3} \,\middle|\, \frac{19}{9}\right)$
05)	$f(x) = -\frac{9}{16}x^2 - \frac{9}{8}x + \frac{27}{16}$	$\text{NST} = \{-3; 1\}$	$S\left(-1 \,\middle|\, \frac{9}{4}\right)$
06)	$f(x) = -\frac{9}{4}x^2 + 6x - 3$	$\text{NST} = \left\{\frac{2}{3}; 2\right\}$	$S\left(\frac{4}{3} \,\middle|\, 1\right)$
07)	$f(x) = -\frac{9}{5}x^2 + \frac{72}{5}x - 27$	$\text{NST} = \{3; 5\}$	$S\left(4 \,\middle|\, \frac{9}{5}\right)$
08)	$f(x) = -\frac{9}{8}x^2 + \frac{3}{2}x + \frac{3}{2}$	$\text{NST} = \left\{-\frac{2}{3}; 2\right\}$	$S\left(\frac{2}{3} \,\middle|\, 2\right)$
09)	$f(x) = -\frac{9}{8}x^2 - 6x - \frac{15}{2}$	$\text{NST} = \left\{-\frac{10}{3}; -2\right\}$	$S\left(-\frac{8}{3} \,\middle|\, \frac{1}{2}\right)$
10)	$f(x) = -\frac{8}{5}x^2 + \frac{36}{5}x - \frac{13}{2}$	$\text{NST} = \left\{\frac{5}{4}; \frac{13}{4}\right\}$	$S\left(\frac{9}{4} \,\middle|\, \frac{8}{5}\right)$
11)	$f(x) = -\frac{7}{4}x^2 + \frac{7}{2}x + \frac{21}{4}$	$\text{NST} = \{-1; 3\}$	$S\left(1 \mid 7\right)$
12)	$f(x) = -\frac{5}{12}x^2 + \frac{5}{6}x + \frac{5}{4}$	$\text{NST} = \{-1; 3\}$	$S\left(1 \,\middle|\, \frac{5}{3}\right)$
13)	$f(x) = -\frac{5}{2}x^2 - 10x$	$\text{NST} = \{-4; 0\}$	$S\left(-2 \mid 10\right)$
14)	$f(x) = -\frac{5}{7}x^2 - \frac{18}{7}x - \frac{32}{35}$	$\text{NST} = \left\{-\frac{16}{5}; -\frac{2}{5}\right\}$	$S\left(-\frac{9}{5} \,\middle|\, \frac{7}{5}\right)$
15)	$f(x) = -\frac{4}{5}x^2 + \frac{12}{5}x + \frac{16}{5}$	$\text{NST} = \{-1; 4\}$	$S\left(\frac{3}{2} \,\middle|\, 5\right)$
16)	$f(x) = -3x^2 + 15x - \frac{63}{4}$	$\text{NST} = \left\{\frac{3}{2}; \frac{7}{2}\right\}$	$S\left(\frac{5}{2} \,\middle|\, 3\right)$
17)	$f(x) = -\frac{3}{16}x^2 - \frac{7}{8}x - \frac{11}{16}$	$\text{NST} = \left\{-\frac{11}{3}; -1\right\}$	$S\left(-\frac{7}{3} \,\middle|\, \frac{1}{3}\right)$
18)	$f(x) = -\frac{3}{2}x^2 - 6x - \frac{45}{8}$	$\text{NST} = \left\{-\frac{5}{2}; -\frac{3}{2}\right\}$	$S\left(-2 \,\middle|\, \frac{3}{8}\right)$
19)	$f(x) = -\frac{3}{4}x^2 + \frac{11}{2}x - \frac{39}{4}$	$\text{NST} = \left\{3; \frac{13}{3}\right\}$	$S\left(\frac{11}{3} \,\middle|\, \frac{1}{3}\right)$
20)	$f(x) = -2x^2 + 3x - 1$	$\text{NST} = \left\{\frac{1}{2}; 1\right\}$	$S\left(\frac{3}{4} \,\middle|\, \frac{1}{8}\right)$

21) $f(x) = -2x^2 - 9x - \frac{45}{8}$ NST $= \left\{-\frac{15}{4}; -\frac{3}{4}\right\}$ $S\left(-\frac{9}{4} \,\middle|\, \frac{9}{2}\right)$

22) $f(x) = -\frac{1}{12}x^2 - \frac{1}{3}x + \frac{5}{12}$ NST $= \{-5; 1\}$ $S\left(-2 \,\middle|\, \frac{3}{4}\right)$

23) $f(x) = -\frac{1}{2}x^2 + \frac{9}{2}$ NST $= \{-3; 3\}$ $S\left(0 \,\middle|\, \frac{9}{2}\right)$

24) $f(x) = -\frac{1}{2}x^2 + x + \frac{15}{2}$ NST $= \{-3; 5\}$ $S\,(1 \mid 8)$

25) $f(x) = -\frac{1}{2}x^2 - x + \frac{15}{2}$ NST $= \{-5; 3\}$ $S\,(-1 \mid 8)$

26) $f(x) = -\frac{1}{2}x^2 - \frac{1}{2}x + 1$ NST $= \{-2; 1\}$ $S\left(-\frac{1}{2} \,\middle|\, \frac{9}{8}\right)$

27) $f(x) = -\frac{1}{2}x^2 - \frac{1}{2}x + \frac{3}{8}$ NST $= \left\{-\frac{3}{2}; \frac{1}{2}\right\}$ $S\left(-\frac{1}{2} \,\middle|\, \frac{1}{2}\right)$

28) $f(x) = -\frac{1}{2}x^2 - \frac{4}{3}x - \frac{2}{3}$ NST $= \left\{-2; -\frac{2}{3}\right\}$ $S\left(-\frac{4}{3} \,\middle|\, \frac{2}{9}\right)$

29) $f(x) = -\frac{1}{4}x^2 - \frac{1}{2}x + \frac{15}{4}$ NST $= \{-5; 3\}$ $S\,(-1 \mid 4)$

30) $f(x) = -\frac{1}{4}x^2 - \frac{5}{6}x + \frac{25}{12}$ NST $= \left\{-5; \frac{5}{3}\right\}$ $S\left(-\frac{5}{3} \,\middle|\, \frac{25}{9}\right)$

31) $f(x) = -\frac{1}{4}x^2 - \frac{9}{4}x - 5$ NST $= \{-5; -4\}$ $S\left(-\frac{9}{2} \,\middle|\, \frac{1}{16}\right)$

32) $f(x) = -x^2 - 5x - \frac{21}{4}$ NST $= \left\{-\frac{7}{2}; -\frac{3}{2}\right\}$ $S\left(-\frac{5}{2} \,\middle|\, 1\right)$

33) $f(x) = -x^2 + \frac{5}{2}x - \frac{3}{2}$ NST $= \left\{1; \frac{3}{2}\right\}$ $S\left(\frac{5}{4} \,\middle|\, \frac{1}{16}\right)$

34) $f(x) = -\frac{1}{6}x^2 - \frac{7}{15}x + \frac{88}{75}$ NST $= \left\{-\frac{22}{5}; \frac{8}{5}\right\}$ $S\left(-\frac{7}{5} \,\middle|\, \frac{3}{2}\right)$

35) $f(x) = -x^2 - 7x - \frac{45}{4}$ NST $= \left\{-\frac{9}{2}; -\frac{5}{2}\right\}$ $S\left(-\frac{7}{2} \,\middle|\, 1\right)$

36) $f(x) = -x^2 - 9x - 20$ NST $= \{-5; -4\}$ $S\left(-\frac{9}{2} \,\middle|\, \frac{1}{4}\right)$

37) $f(x) = x^2 - \frac{11}{2}x + 7$ NST $= \left\{2; \frac{7}{2}\right\}$ $S\left(\frac{11}{4} \,\middle|\, -\frac{9}{16}\right)$

38) $f(x) = x^2 - \frac{14}{3}x + \frac{40}{9}$ NST $= \left\{\frac{4}{3}; \frac{10}{3}\right\}$ $S\left(\frac{7}{3} \,\middle|\, -1\right)$

39) $f(x) = \frac{1}{2}x^2 + 2x - \frac{9}{8}$ NST $= \left\{-\frac{9}{2}; \frac{1}{2}\right\}$ $S\left(-2 \,\middle|\, -\frac{25}{8}\right)$

40) $f(x) = x^2 + 2x + \frac{3}{4}$ NST $= \left\{-\frac{3}{2}; -\frac{1}{2}\right\}$ $S\left(-1 \,\middle|\, -\frac{1}{4}\right)$

41) $f(x) = \frac{1}{2}x^2 + \frac{3}{4}x + \frac{1}{4}$ NST $= \left\{-1; -\frac{1}{2}\right\}$ $S\left(-\frac{3}{4} \,\middle|\, -\frac{1}{32}\right)$

42) $f(x) = \frac{1}{4}x^2 - \frac{1}{4}$ NST $= \{-1; 1\}$ $S\left(0 \,\middle|\, -\frac{1}{4}\right)$

43) $f(x) = \frac{1}{4}x^2 - \frac{1}{2}x - \frac{3}{4}$ NST $= \{-1; 3\}$ $S\,(1 \mid -1)$

44) $f(x) = x^2 - 7x + 12$ NST $= \{3; 4\}$ $S\left(\frac{7}{2} \,\middle|\, -\frac{1}{4}\right)$

45) $f(x) = x^2 + 7x + \frac{45}{4}$ NST $= \left\{-\frac{9}{2}; -\frac{5}{2}\right\}$ $S\left(-\frac{7}{2} \,\middle|\, -1\right)$

46) $f(x) = \frac{1}{9}x^2 + \frac{5}{9}x + \frac{4}{9}$ NST $= \{-4; -1\}$ $S\left(-\frac{5}{2} \,\middle|\, -\frac{1}{4}\right)$

47) $f(x) = 2x^2 + 8x + \frac{15}{2}$ NST $= \left\{-\frac{5}{2}; -\frac{3}{2}\right\}$ $S\left(-2 \,\middle|\, -\frac{1}{2}\right)$

48) $f(x) = \frac{3}{16}x^2 + \frac{5}{4}x + \frac{7}{4}$ NST $= \left\{-\frac{14}{3}; -2\right\}$ $S\left(-\frac{10}{3} \,\middle|\, -\frac{1}{3}\right)$

49) $f(x) = \frac{3}{2}x^2 - \frac{9}{2}x$ NST $= \{0; 3\}$ $S\left(\frac{3}{2} \,\middle|\, -\frac{27}{8}\right)$

50) $f(x) = \frac{3}{4}x^2 + \frac{9}{2}x + 6$ NST $= \{-4; -2\}$ $S\left(-3 \,\middle|\, -\frac{3}{4}\right)$

51) $f(x) = \frac{4}{9}x^2 - \frac{2}{3}x - \frac{3}{4}$ NST $= \left\{-\frac{3}{4}; \frac{9}{4}\right\}$ $S\left(\frac{3}{4} \,\middle|\, -1\right)$

52) $f(x) = 5x^2 + 6x - \frac{7}{5}$ NST $= \left\{-\frac{7}{5}; \frac{1}{5}\right\}$ $S\left(-\frac{3}{5} \,\middle|\, -\frac{16}{5}\right)$

53) $f(x) = \frac{5}{8}x^2 - \frac{25}{8}x + \frac{45}{32}$ NST $= \left\{\frac{1}{2}; \frac{9}{2}\right\}$ $S\left(\frac{5}{2} \,\middle|\, -\frac{5}{2}\right)$

54) $f(x) = \frac{7}{4}x^2 - \frac{7}{2}x + \frac{21}{16}$ NST $= \left\{\frac{1}{2}; \frac{3}{2}\right\}$ $S\left(1 \,\middle|\, -\frac{7}{16}\right)$

55) $f(x) = \frac{8}{15}x^2 + \frac{8}{3}x + \frac{32}{15}$ NST $= \{-4; -1\}$ $S\left(-\frac{5}{2} \,\middle|\, -\frac{6}{5}\right)$

56) $f(x) = 8x^2 + 16x + 6$ NST $= \left\{-\frac{3}{2}; -\frac{1}{2}\right\}$ $S\,(-1 \mid -2)$

57) $f(x) = \frac{9}{10}x^2 + \frac{12}{5}x + \frac{6}{5}$ NST $= \left\{-2; -\frac{2}{3}\right\}$ $S\left(-\frac{4}{3} \,\middle|\, -\frac{2}{5}\right)$

58) $f(x) = \frac{9}{20}x^2 - \frac{3}{5}x - \frac{24}{5}$ NST $= \left\{-\frac{8}{3}; 4\right\}$ $S\left(\frac{2}{3} \,\middle|\, -5\right)$

59) $f(x) = \frac{11}{4}x^2 - 11x + \frac{33}{4}$ NST $= \{1; 3\}$ $S\left(2 \,\middle|\, -\frac{11}{4}\right)$

60) $f(x) = \frac{16}{15}x^2 - \frac{28}{5}x + \frac{18}{5}$ NST $= \left\{\frac{3}{4}; \frac{9}{2}\right\}$ $S\left(\frac{21}{8} \,\middle|\, -\frac{15}{4}\right)$

61) $f(x) = \frac{21}{25}x^2 + \frac{28}{5}x + 7$ NST $= \left\{-5; -\frac{5}{3}\right\}$ $S\left(-\frac{10}{3} \,\middle|\, -\frac{7}{3}\right)$

62) $f(x) = \frac{25}{6}x^2 - \frac{5}{3}x - \frac{1}{2}$ NST $= \left\{-\frac{1}{5}; \frac{3}{5}\right\}$ $S\left(\frac{1}{5} \,\middle|\, -\frac{2}{3}\right)$

Irrationale Koeffizienten und Lösungen

01)	$f(x) = \sqrt{7}x^2 + \sqrt{112}x + \sqrt{63}$	$\text{NST} = \{-3; -1\}$	$S\left(-2 \,\middle|\, -\sqrt{7}\right)$
02)	$f(x) = -x^2 - \sqrt{\frac{3}{4}}x + \frac{3}{2}$	$\text{NST} = \left\{-\sqrt{3}; \sqrt{\frac{3}{4}}\right\}$	$S\left(-\sqrt{\frac{3}{16}} \,\middle|\, \frac{27}{16}\right)$
03)	$f(x) = \sqrt{3}x^2 + 4x + \sqrt{3}$	$\text{NST} = \left\{-\sqrt{3}; -\sqrt{\frac{1}{3}}\right\}$	$S\left(-\sqrt{\frac{4}{3}} \,\middle|\, -\sqrt{\frac{1}{3}}\right)$
04)	$f(x) = \sqrt{108}x^2 - 30x + \sqrt{432}$	$\text{NST} = \left\{\sqrt{\frac{4}{3}}; \sqrt{3}\right\}$	$S\left(\sqrt{\frac{25}{12}} \,\middle|\, -\sqrt{\frac{3}{4}}\right)$
05)	$f(x) = -\sqrt{\frac{11}{128}}x^2 + \sqrt{22}x - \sqrt{198}$	$\text{NST} = \{4; 12\}$	$S\left(8 \,\middle|\, \sqrt{22}\right)$
06)	$f(x) = -\sqrt{\frac{1}{54}}x^2 + \sqrt{\frac{2}{3}}x + \sqrt{\frac{27}{2}}$	$\text{NST} = \{-3; 9\}$	$S\left(3 \,\middle|\, \sqrt{24}\right)$
07)	$f(x) = \sqrt{\frac{1}{162}}x^2 + \sqrt{\frac{2}{9}}x - \sqrt{\frac{9}{2}}$	$\text{NST} = \{-9; 3\}$	$S\left(-3 \,\middle|\, -\sqrt{8}\right)$
08)	$f(x) = -\sqrt{\frac{16}{27}}x^2 + \sqrt{\frac{16}{27}}x + \sqrt{\frac{64}{27}}$	$\text{NST} = \{-1; 2\}$	$S\left(\frac{1}{2} \,\middle|\, \sqrt{3}\right)$
09)	$f(x) = -\sqrt{\frac{1}{108}}x^2 - \sqrt{3}x - \sqrt{\frac{75}{4}}$	$\text{NST} = \{-15; -3\}$	$S\left(-9 \,\middle|\, \sqrt{12}\right)$
10)	$f(x) = \sqrt{\frac{2}{9}}x^2 - \sqrt{8}x + \sqrt{\frac{128}{9}}$	$\text{NST} = \{2; 4\}$	$S\left(3 \,\middle|\, -\sqrt{\frac{2}{9}}\right)$
11)	$f(x) = -\sqrt{\frac{1}{3}}x^2 - \sqrt{\frac{1}{3}}x + \sqrt{\frac{75}{16}}$	$\text{NST} = \left\{-\frac{5}{2}; \frac{3}{2}\right\}$	$S\left(-\frac{1}{2} \,\middle|\, \sqrt{\frac{16}{3}}\right)$
12)	$f(x) = \sqrt{\frac{81}{5}}x^2 - \sqrt{\frac{36}{5}}x - \sqrt{\frac{9}{5}}$	$\text{NST} = \left\{-\frac{1}{3}; 1\right\}$	$S\left(\frac{1}{3} \,\middle|\, -\sqrt{\frac{16}{5}}\right)$
13)	$f(x) = -\sqrt{\frac{8}{625}}x^2 + \sqrt{\frac{72}{25}}x - \sqrt{\frac{25}{2}}$	$\text{NST} = \left\{\frac{5}{2}; \frac{25}{2}\right\}$	$S\left(\frac{15}{2} \,\middle|\, \sqrt{8}\right)$
14)	$f(x) = -\sqrt{\frac{32}{9}}x^2 + \sqrt{\frac{128}{3}}x - \sqrt{18}$	$\text{NST} = \left\{\sqrt{\frac{3}{4}}; \sqrt{\frac{27}{4}}\right\}$	$S\left(\sqrt{3} \,\middle|\, \sqrt{2}\right)$
15)	$f(x) = -\sqrt{\frac{13}{6}}x^2 + \sqrt{\frac{13}{9}}x + \sqrt{\frac{104}{27}}$	$\text{NST} = \left\{-\sqrt{\frac{2}{3}}; \sqrt{\frac{8}{3}}\right\}$	$S\left(\sqrt{\frac{1}{6}} \,\middle|\, \sqrt{\frac{39}{8}}\right)$
16)	$f(x) = \sqrt{\frac{56}{9}}x^2 + \sqrt{\frac{448}{9}}x + \sqrt{14}$	$\text{NST} = \left\{-\sqrt{\frac{9}{2}}; -\sqrt{\frac{1}{2}}\right\}$	$S\left(-\sqrt{2} \,\middle|\, -\sqrt{\frac{14}{9}}\right)$
17)	$f(x) = -\sqrt{\frac{171}{16}}x^2 - \sqrt{114}x - \sqrt{\frac{171}{4}}$	$\text{NST} = \left\{-\sqrt{6}; -\sqrt{\frac{2}{3}}\right\}$	$S\left(-\sqrt{\frac{8}{3}} \,\middle|\, \sqrt{\frac{19}{4}}\right)$