EGYENLETEK, EGYENLŐTLENSÉGEK GRAFIKUS MEGOLDÁSA

A

1.	$2x+1=2\lvert x-3\rvert-1$	$2x+1\geq 2\lvert x-3\rvert-1$	$2x+1<2\lvert x-3\rvert-1$
2.	$\frac{3}{5}x+3=3\lvert x-2\rvert-3$	$\frac{3}{5}x+3\leq 3\lvert x-2\rvert-3$	$\frac{3}{5}x+3>3\lvert x-2\rvert-3$
3.	$\frac{1}{2}x+1=\lvert x+2\rvert-3$	$\frac{1}{2}x+1>\lvert x+2\rvert-3$	$\frac{1}{2}x+1\leq\lvert x+2\rvert-3$
4.	$x+2=3\lvert x-3\rvert+1$	$x+2<3\lvert x-3\rvert+1$	$x+2\geq 3\lvert x-3\rvert+1$
5.	$2x+2=\frac{1}{2}\lvert x-3\rvert+3$	$2x+2>\frac{1}{2}\lvert x-3\rvert+3$	$2x+2\leq\frac{1}{2}\lvert x-3\rvert+3$
6.	$\frac{3}{2}x+1=-\frac{1}{2}\lvert x-4\rvert+5$	$\frac{3}{2}x+1<-\frac{1}{2}\lvert x-4\rvert+5$	$\frac{3}{2}x+1\geq-\frac{1}{2}\lvert x-4\rvert+5$
7.	$\frac{2}{3}x+3=-\frac{1}{2}\lvert x-4\rvert+5$	$\frac{2}{3}x+3>-\frac{1}{2}\lvert x-4\rvert+5$	$\frac{2}{3}x+3\leq-\frac{1}{2}\lvert x-4\rvert+5$
8.	$-x+3=-2\lvert x-2\rvert+4$	$-x+3<-2\lvert x-2\rvert+4$	$-x+3\geq-2\lvert x-2\rvert+4$
9.	$-x-1=-3\lvert x+1\rvert+2$	$-x-1>-3\lvert x+1\rvert+2$	$-x-1\leq-3\lvert x+1\rvert+2$

B

10.	$2x+2=(x+1)^2-3$	$2x+2<(x+1)^2-3$	$2x+2\geq(x+1)^2-3$
11.	$x-1=(x-4)^2-3$	$x-1>(x-4)^2-3$	$x-1\leq(x-4)^2-3$
12.	$\frac{1}{2}x-1=\frac{1}{2}(x-4)^2$	$\frac{1}{2}x-1<\frac{1}{2}(x-4)^2$	$\frac{1}{2}x-1\geq\frac{1}{2}(x-4)^2$
13.	$-x+2=\frac{1}{2}(x-4)^2-6$	$-x+2>\frac{1}{2}(x-4)^2-6$	$-x+2\leq\frac{1}{2}(x-4)^2-6$
14.	$-\frac{1}{2}x-1=\frac{1}{2}(x+2)^2+1$	$-\frac{1}{2}x-1<\frac{1}{2}(x+2)^2+1$	$-\frac{1}{2}x-1\geq\frac{1}{2}(x+2)^2+1$
15.	$-x+5=(x-2)^2-3$	$-x+5>(x-2)^2-3$	$-x+5\leq(x-2)^2-3$
16.	$2x-3=2(x-2)^2-3$	$2x-3<2(x-2)^2-3$	$2x-3\geq2(x-2)^2-3$
17.	$-x+5=2(x-2)^2-3$	$-x+5>2(x-2)^2-3$	$-x+5\leq2(x-2)^2-3$
18.	$-2x-5=2(x+1)^2-3$	$-2x-5<2(x+1)^2-3$	$-2x-5\geq2(x+1)^2-3$
19.	$-2x+5=-(x-1)^2+3$	$-2x+5>-(x-1)^2+3$	$-2x+5\leq-(x-1)^2+3$
20.	$-x+5=-(x-4)^2+3$	$-x+5<-(x-4)^2+3$	$-x+5\geq-(x-4)^2+3$
21.	$-\frac{1}{2}x+2=-\frac{1}{2}(x-4)^2+3$	$-\frac{1}{2}x+2>-\frac{1}{2}(x-4)^2+3$	$-\frac{1}{2}x+2\leq-\frac{1}{2}(x-4)^2+3$
22.	$x-1=-\frac{1}{2}(x-4)^2+3$	$x-1<-\frac{1}{2}(x-4)^2+3$	$x-1\geq-\frac{1}{2}(x-4)^2+3$
23.	$x-2=-\frac{1}{2}(x-2)^2+4$	$x-2>-\frac{1}{2}(x-2)^2+4$	$x-2\leq-\frac{1}{2}(x-2)^2+4$
24.	$-x-1=-\frac{1}{2}(x+1)^2+4$	$-x-1<-\frac{1}{2}(x+1)^2+4$	$-x-1\geq-\frac{1}{2}(x+1)^2+4$

C

25.	$-x+1=\sqrt{x+2}+1$	$-x+1>\sqrt{x+2}+1$	$-x+1\le\sqrt{x+2}+1$
26.	$-2x+2=\sqrt{x+5}+2$	$-2x+2<\sqrt{x+5}+2$	$-2x+2\ge\sqrt{x+5}+2$
27.	$2x+2=\sqrt{x+3}+2$	$2x+2>\sqrt{x+3}+2$	$2x+2\le\sqrt{x+3}+2$
28.	$x+2=2\sqrt{x+4}-2$	$x+2<2\sqrt{x+4}-2$	$x+2\ge2\sqrt{x+4}-2$
29.	$\frac{2}{3}x+1=2\sqrt{x+3}-1$	$\frac{2}{3}x+1>2\sqrt{x+3}-1$	$\frac{2}{3}x+1\le2\sqrt{x+3}-1$
30.	$2x+1=3\sqrt{x+3}-4$	$2x+1<3\sqrt{x+3}-4$	$2x+1\ge3\sqrt{x+3}-4$
31.	$x-3=-\sqrt{x-1}+5$	$x-3>-\sqrt{x-1}+5$	$x-3\le-\sqrt{x-1}+5$
32.	$2x-2=-\sqrt{x-1}+3$	$2x-2<-\sqrt{x-1}+3$	$2x-2\ge-\sqrt{x-1}+3$
33.	$-\frac{2}{3}x+2=-2\sqrt{x+3}+4$	$-\frac{2}{3}x+2>-2\sqrt{x+3}+4$	$-\frac{2}{3}x+2\le-2\sqrt{x+3}+4$
34.	$-x+1=-2\sqrt{x+2}+3$	$-x+1<-2\sqrt{x+2}+3$	$-x+1\ge-2\sqrt{x+2}+3$

D

35.	$-x+4=\frac{1}{x-3}+1$	$-x+4>\frac{1}{x-3}+1$	$-x+4\le\frac{1}{x-3}+1$
36.	$-x=\frac{1}{x+3}+1$	$-x<\frac{1}{x+3}+1$	$-x\ge\frac{1}{x+3}+1$
37.	$x+5=\frac{1}{x+2}+3$	$x+5>\frac{1}{x+2}+3$	$x+5\le\frac{1}{x+2}+3$
38.	$x+1=\frac{1}{x-2}+3$	$x+1<\frac{1}{x-2}+3$	$x+1\ge\frac{1}{x-2}+3$
39.	$2x+1=\frac{2}{x-1}+3$	$2x+1>\frac{2}{x-1}+3$	$2x+1\le\frac{2}{x-1}+3$
40.	$\frac{1}{2}x+2=\frac{2}{x-4}+4$	$\frac{1}{2}x+2<\frac{2}{x-4}+4$	$\frac{1}{2}x+2\ge\frac{2}{x-4}+4$
41.	$-x+1=-\frac{1}{x+2}+3$	$-x+1>-\frac{1}{x+2}+3$	$-x+1\le-\frac{1}{x+2}+3$
42.	$-x+5=-\frac{1}{x-2}+3$	$-x+5<-\frac{1}{x-2}+3$	$-x+5\ge-\frac{1}{x-2}+3$
43.	$-x+1=-\frac{2}{x+1}+3$	$-x+1>-\frac{2}{x+1}+3$	$-x+1\le-\frac{2}{x+1}+3$
44.	$-\frac{1}{2}x+1=-\frac{2}{x-2}$	$-\frac{1}{2}x+1<-\frac{2}{x-2}$	$-\frac{1}{2}x+1\ge-\frac{2}{x-2}$

E

45.	$\lvert x-4\rvert-2=(x+1)^2+1$	$\lvert x-4\rvert-2>(x+1)^2+1$	$\lvert x-4\rvert-2\le(x+1)^2+1$
46.	$\lvert x\rvert-1=(x-5)^2+2$	$\lvert x\rvert-1<(x-5)^2+2$	$\lvert x\rvert-1\ge(x-5)^2+2$
47.	$\lvert x-2\rvert+1=\frac{1}{2}(x-3)^2+2$	$\lvert x-2\rvert+1>\frac{1}{2}(x-3)^2+2$	$\lvert x-2\rvert+1\le\frac{1}{2}(x-3)^2+2$

48. $|x-4|-2=\frac{1}{2}(x-1)^2-3$ $|x-4|-2<\frac{1}{2}(x-1)^2-3$ $|x-4|-2\geq\frac{1}{2}(x-1)^2-3$

49. $|x-2|=-(x+1)^2+5$ $|x-2|>-(x+1)^2+5$ $|x-2|\leq-(x+1)^2+5$

F

50. $|x-2|=\sqrt{x+2}+2$ $|x-2|<\sqrt{x+2}+2$ $|x-2|\geq\sqrt{x+2}+2$

51. $\frac{1}{2}|x+1|+1=\sqrt{x-1}+2$ $\frac{1}{2}|x+1|+1>\sqrt{x-1}+2$ $\frac{1}{2}|x+1|+1\leq\sqrt{x-1}+2$

52. $2|x+1|-3=2\sqrt{x+2}-1$ $2|x+1|-3<2\sqrt{x+2}-1$ $2|x+1|-3\geq2\sqrt{x+2}-1$

53. $\frac{5}{2}|x-3|-3=-\sqrt{x-1}+4$ $\frac{5}{2}|x-3|-3>-\sqrt{x-1}+4$ $\frac{5}{2}|x-3|-3\leq-\sqrt{x-1}+4$

54. $|x-1|-2=-2\sqrt{x+3}+2$ $|x-1|-2<-2\sqrt{x+3}+2$ $|x-1|-2\geq-2\sqrt{x+3}+2$

G

55. $|x-1|=\frac{1}{x-2}+1$ $|x-1|>\frac{1}{x-2}+1$ $|x-1|\leq\frac{1}{x-2}+1$

56. $|x+1|+2=\frac{1}{x+1}+2$ $|x+1|+2<\frac{1}{x+1}+2$ $|x+1|+2\geq\frac{1}{x+1}+2$

57. $-|x+2|+4=\frac{1}{x+2}+4$ $-|x+2|+4>\frac{1}{x+2}+4$ $-|x+2|+4\leq\frac{1}{x+2}+4$

58. $-|x-4|+4=-\frac{1}{x-4}+4$ $-|x-4|+4<-\frac{1}{x-4}+4$ $-|x-4|+4\geq-\frac{1}{x-4}+4$ -4

59. $-|x+1|+2=-\frac{1}{x+1}+2$ $-|x+1|+2>-\frac{1}{x+1}+2$ $-|x+1|+2\leq-\frac{1}{x+1}+2$

H

60. $(x+1)^2-4=4\sqrt{x+2}-3$ $(x+1)^2-4<4\sqrt{x+2}-3$ $(x+1)^2-4\geq4\sqrt{x+2}-3$

61. $(x-2)^2-4=2\sqrt{x-1}+1$ $(x-2)^2-4>2\sqrt{x-1}+1$ $(x-2)^2-4\leq2\sqrt{x-1}+1$

62. $\frac{1}{2}(x-2)^2-3=2\sqrt{x-2}+1$ $\frac{1}{2}(x-2)^2-3<2\sqrt{x-2}+1$ $\frac{1}{2}(x-2)^2-3\geq2\sqrt{x-2}+1$

63. $-(x+1)^2+3=2\sqrt{x+1}$ $-(x+1)^2+3>2\sqrt{x+1}$ $-(x+1)^2+3\leq2\sqrt{x+1}$

64. $-\frac{1}{2}(x-1)^2+3=3\sqrt{x-2}-2$ $-\frac{1}{2}(x-1)^2+3<3\sqrt{x-2}-2$

$-\frac{1}{2}(x-1)^2+3\geq3\sqrt{x-2}-2$