AB 1 Quadratische Gleichung lösen

1.

Die Lösungen ergeben einen Tiernamen.

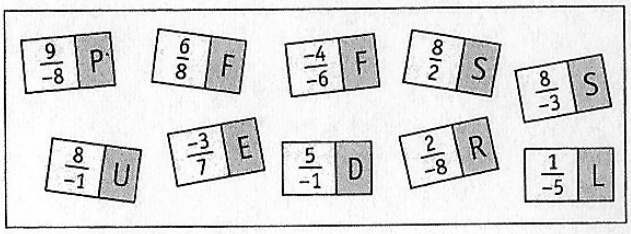
a) $x^2 + 10x + 24 = 0$ b) $x^2 + 4x - 5 = 0$

c) $x^2 - 7x - 8 = 0$ d) $x^2 - 10x + 16 = 0$

e) $x^2 - 5x - 24 = 0$ f) $x^2 - x - 72 = 0$

g) $x^2 - 14x + 48 = 0$ h) $x^2 - 4x - 21 = 0$

i) $x^2 + 6x - 16 = 0$ j) $x^2 - 4x - 5 = 0$



2.

a) $x^2 - 2{,}5x + 1{,}56 = 0$ b) $x^2 - 1{,}1x + 0{,}24 = 0$ c) $x^2 - 1{,}1x + 0{,}3 = 0$ d) $x^2 - 3{,}5x - 3 = 0$

e) $x^2 + 8x - 3{,}36 = 0$ f) $x^2 + 9x + 3{,}8 = 0$ g) $x^2 + 9x + 6{,}7 = 0$ h) $x^2 - 8x + 5{,}8 = 0$

i) $x^2 + 1{,}4x - 5 = 0$ j) $x^2 + 6x - 0{,}6 = 0$ k) $x^2 + 4{,}8x - 0{,}9 = 0$ l) $x^2 + 9{,}5x - 8{,}4 = 0$

3.

a) $x^2 - \frac{5}{6}x + \frac{1}{6} = 0$ b) $x^2 - \frac{5}{2}x + \frac{3}{2} = 0$ c) $x^2 - \frac{11}{12}x + \frac{1}{6} = 0$ d) $x^2 - \frac{11}{15}x + \frac{2}{15} = 0$

e) $x^2 - \frac{7}{6}x + \frac{1}{3} = 0$ f) $x^2 - \frac{3}{20}x - \frac{1}{10} = 0$ g) $x^2 + \frac{5}{6}x - \frac{1}{6} = 0$ h) $x^2 - \frac{5}{4}x + \frac{1}{8} = 0$

4.

a) $2x^2 + 8x - 42 = 0$ b) $3x^2 - 18x + 15 = 0$ c) $4x^2 - 16x - 48 = 0$ d) $5x^2 + 10x - 120 = 0$

e) $3x^2 - 9x - 54 = 0$ f) $3x^2 + 6x - 72 = 0$ g) $2x^2 - 2x - 84 = 0$ h) $3x^2 + 6x - 24 = 0$

LÖSUNGEN

1.

a	b	c	d	e	f	g	h	i	j
x_1=- 4 x_2=- 6	x_1=1 x_2=-5	x_1=8 x_2=-1	x_1=8 x_2=2	x_1=8 x_2=-3	x_1=9 x_2=-8	x_1= 6 x_2= 8	x_1= - 3 x_2=7	x_1= 2 x_2= - 8	x_1= 5 x_2= - 1
F	L	U	S	S	P	F	E	R	D

2.

a	b	c	d	e	f	g	h	i	j	k	l
x_1=1,3 x_2=1,2	x_1=0,8 x_2=0,3	x_1=0,6 x_2=0,5	x_1= 4,21 x_2= - 0,71	x_1=0,4 x_2= - 8,4	x_1= x_2=	x_1= x_2=	x_1= x_2=	x_1= x_2=	x_1= x_2=	x_1= x_2=	x_1= x_2=

3.

a	b	c	d	e	f	g	h
x_1= x_2=	x_1= x_2=	x_1= x_2=	x_1= x_2=	x_1= x_2=	x_1= x_2=	x_1= x_2=	x_1= x_2=

4.

a	b	c	d	e	f	g	h
x_1= x_2=	x_1= x_2=	x_1= x_2=	x_1= x_2=	x_1= x_2=	x_1= x_2=	x_1= x_2=	x_1= x_2=