Umformen quadratischer Terme mit dem Satz von Vieta

(Fülle die Spalten x1 und x2 aus, ergänze also die Linearfaktoren.)

Aufg.	a x² +	b x +	c	=	a (x -	x1	) (x -	x2	)
1	x² +	11 x -	60	=	(x -		) (x +		)
2	x² +	7 x +	6	=	(x +		) (x +		)
3	x² +	x -	72	=	(x -		) (x +		)
4	x² +	7 x -	8	=	(x +		) (x -		)
5	x² +	4 x -	165	=	(x -		) (x +		)
6	x² -	6 x -	55	=	(x +		) (x -		)
7	x² +	22 x +	105	=	(x +		) (x +		)
8	x² -	26 x +	165	=	(x -		) (x -		)
9	x² -	23 x +	126	=	(x -		) (x -		)
10	x² +	x -	12	=	(x +		) (x -		)
11	x² +	6 x -	0	=	(x -		) (x +		)
12	x² +	18 x +	65	=	(x +		) (x +		)
13	x² +	2 x -	24	=	(x +		) (x -		)
14	x² +	20 x +	75	=	(x +		) (x +		)
15	x² -	0 x -	196	=	(x -		) (x +		)
16	x² +	12 x +	11	=	(x		) (x		)
17	x² -	22 x +	117	=	(x		) (x		)
18	x² -	16 x +	48	=	(x		) (x		)
19	x² -	5 x -	150	=	(x		) (x		)
20	x² +	8 x +	12	=	(x		) (x		)
21	x² +	3 x -	10	=	(x		) (x		)
22	x² -	23 x +	120	=	(x		) (x		)
23	x² -	22 x +	112	=	(x		) (x		)
24	x² -	6 x -	16	=	(x		) (x		)
25	x² -	8 x -	20	=	(x		) (x		)
26	x² +	19 x +	60	=	(x		) (x		)
27	x² +	8 x -	84	=	(x		) (x		)
28	x² -	0 x -	100	=	(x		) (x		)
29	x² -	12 x +	20	=	(x		) (x		)
30	x² -	4 x -	77	=	(x		) (x		)
31	x² +	7 x -	0	=	(x -		) (x +		)
32	x² -	22 x +	117	=	(x -		) (x -		)
33	x² -	1 x -	132	=	(x -		) (x +		)
34	2 x² -	0 x -	2	=	2 (x +		) (x -		)
35	x² +	6 x -	91	=	(x +		) (x -		)
36	-2 x² -	2 x +	84	=	-2 (x +		) (x -		)
37	-5 x² -	10 x +	15	=	-5 (x -		) (x +		)
38	-3 x² -	6 x -	0	=	-3 (x +		) (x -		)
39	-5 x² +	55 x -	0	=	-5 (x -		) (x -		)
40	-3 x² +	45 x -	0	=	-3 (x -		) (x -		)

Lösungen

Aufg.	a	(x -	x1	)	(x -	x2	)
1		(x -	4	)	(x +	15	)
2		(x +	1	)	(x +	6	)
3		(x -	8	)	(x +	9	)
4		(x +	8	)	(x -	1	)
5		(x -	11	)	(x +	15	)
6		(x +	5	)	(x -	11	)
7		(x +	7	)	(x +	15	)
8		(x -	15	)	(x -	11	)
9		(x -	9	)	(x -	14	)
10		(x +	4	)	(x -	3	)
11		(x -	0	)	(x +	6	)
12		(x +	5	)	(x +	13	)
13		(x +	6	)	(x -	4	)
14		(x +	15	)	(x +	5	)
15		(x -	14	)	(x +	14	)
16		(x +	11	)	(x +	1	)
17		(x -	13	)	(x -	9	)
18		(x -	12	)	(x -	4	)
19		(x -	15	)	(x +	10	)
20		(x +	2	)	(x +	6	)
21		(x -	2	)	(x +	5	)
22		(x -	15	)	(x -	8	)
23		(x -	8	)	(x -	14	)
24		(x -	8	)	(x +	2	)
25		(x -	10	)	(x +	2	)
26		(x +	4	)	(x +	15	)
27		(x +	14	)	(x -	6	)
28		(x +	10	)	(x -	10	)
29		(x -	10	)	(x -	2	)
30		(x +	7	)	(x -	11	)
31		(x -	0	)	(x +	7	)
32		(x -	13	)	(x -	9	)
33		(x -	12	)	(x +	11	)
34	2	(x +	1	)	(x -	1	)
35		(x +	13	)	(x -	7	)
36	-2	(x +	7	)	(x -	6	)
37	-5	(x -	1	)	(x +	3	)
38	-3	(x +	2	)	(x -	0	)
39	-5	(x -	0	)	(x -	11	)
40	-3	(x -	0	)	(x -	15	)