

Umformen quadratischer Terme mit dem Satz von Vieta

#81625

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

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Aufg.	a	x ² +	b	x +	c	=	a	(x -	x1)	(x -	x2)
1		x ² -	9	x -	22	=	(x +)	(x -)	
2		x ² +	6	x -	91	=	(x +)	(x -)	
3		x ² -	7	x +	12	=	(x -)	(x -)	
4		x ² -	1	x -	6	=	(x -)	(x +)	
5		x ² -	3	x +	2	=	(x -)	(x -)	
6		x ² +	21	x +	104	=	(x +)	(x +)	
7		x ² -	2	x -	120	=	(x -		)	(x +)	
8		x ² +	3	x -	0	=	(x -		)	(x +)	
9		x ² -	3	x -	28	=	(x +		)	(x -)	
10		x ² -	19	x +	90	=	(x -		)	(x -)	
11		x ² +	3	x +	2	=	(x +		)	(x +)	
12		x ² +	27	x +	180	=	(x +		)	(x +)	
13		x ² -	18	x +	65	=	(x -		)	(x -)	
14		x ² -	3	x -	108	=	(x -		)	(x +)	
15		x ² -	8	x +	7	=	(x -		)	(x -)	
16		x ² -	2	x -	120	=	(x		)	(x)	
17		x ² -	10	x -	11	=	(x		)	(x)	
18		x ² -	14	x -	0	=	(x		)	(x)	
19		x ² +	16	x +	15	=	(x		)	(x)	
20		x ² +	8	x -	65	=	(x		)	(x)	
21		x ² -	11	x -	60	=	(x		)	(x)	
22		x ² -	11	x +	10	=	(x		)	(x)	
23		x ² -	11	x +	18	=	(x		)	(x)	
24		x ² -	9	x +	18	=	(x		)	(x)	
25		x ² -	5	x -	84	=	(x		)	(x)	
26		x ² +	6	x +	5	=	(x		)	(x)	
27		x ² +	11	x +	18	=	(x		)	(x)	
28		x ² -	8	x -	65	=	(x		)	(x)	
29		x ² +	8	x -	33	=	(x		)	(x)	
30		x ² +	10	x -	75	=	(x		)	(x)	
31		3 x ² -	66	x +	363	=	3 (x -		)	(x -)	
32		x ² -	12	x +	32	=	(x -		)	(x -)	
33		5 x ² -	105	x +	540	=	5 (x -		)	(x -)	
34		3 x ² -	33	x +	30	=	3 (x -		)	(x -)	
35		5 x ² +	50	x +	80	=	5 (x +		)	(x +)	
36		-2 x ² +	20	x -	18	=	-2 (x -		)	(x -)	
37		-1 x ² +	8	x -	7	=	-1 (x -		)	(x -)	
38		-1 x ² -	18	x -	77	=	-1 (x +		)	(x +)	
39		-5 x ² +	80	x -	195	=	-5 (x -		)	(x -)	
40		-3 x ² -	27	x -	60	=	-3 (x +		)	(x +)	

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