

Umformen quadratischer Terme mit dem Satz von Vieta

#222025

(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 +	26	x +	168	=	(x +)	(x +)	
2		x ² +	27	x +	180	=	(x +)	(x +)	
3		x ² -	21	x +	90	=	(x -)	(x -)	
4		x ² -	2	x -	35	=	(x +)	(x -)	
5		x ² -	25	x +	156	=	(x -)	(x -)	
6		x ² -	5	x -	66	=	(x -		)	(x +)	
7		x ² +	3	x -	10	=	(x +		)	(x -)	
8		x ² -	18	x +	81	=	(x -		)	(x -)	
9		x ² +	4	x +	3	=	(x +		)	(x +)	
10		x ² +	20	x +	91	=	(x +		)	(x +)	
11		x ² -	18	x +	56	=	(x -		)	(x -)	
12		x ² -	20	x +	75	=	(x -		)	(x -)	
13		x ² +	2	x -	143	=	(x -		)	(x +)	
14		x ² -	0	x -	4	=	(x -		)	(x +)	
15		x ² -	15	x +	36	=	(x -		)	(x -)	
16		x ² +	14	x +	40	=	(x		)	(x)	
17		x ² +	3	x -	70	=	(x		)	(x)	
18		x ² +	8	x -	20	=	(x		)	(x)	
19		x ² +		x -	42	=	(x		)	(x)	
20		x ² -	1	x -	156	=	(x		)	(x)	
21		x ² -	12	x +	32	=	(x		)	(x)	
22		x ² +	3	x -	54	=	(x		)	(x)	
23		x ² -	12	x +	32	=	(x		)	(x)	
24		x ² +	10	x -	56	=	(x		)	(x)	
25		x ² -	11	x -	12	=	(x		)	(x)	
26		x ² +	20	x +	91	=	(x		)	(x)	
27		x ² -	14	x +	49	=	(x		)	(x)	
28		x ² +	17	x +	42	=	(x		)	(x)	
29		x ² -	1	x -	110	=	(x		)	(x)	
30		x ² -	16	x +	48	=	(x		)	(x)	
31		3 x ² +	3	x -	168	=	3 (x -		)	(x +)	
32		x ² +	5	x -	0	=	(x -		)	(x +)	
33		3 x ² -	9	x -	12	=	3 (x +		)	(x -)	
34		3 x ² -	0	x -	300	=	3 (x +		)	(x -)	
35		3 x ² +	51	x +	198	=	3 (x +		)	(x +)	
36		-2 x ² -	52	x -	338	=	-2 (x +		)	(x +)	
37		-1 x ² +	11	x +	60	=	-1 (x +		)	(x -)	
38		-2 x ² -	10	x -	0	=	-2 (x -		)	(x +)	
39		-4 x ² -	12	x -	8	=	-4 (x +		)	(x +)	
40		-2 x ² +	20	x -	0	=	-2 (x -		)	(x -)	

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