

Umformen quadratischer Terme mit dem Satz von Vieta

#717454

(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 +	3	x -	40	=	(x +)	(x -)	
2		x ² +	7	x -	8	=	(x -)	(x +)	
3		x ² -	5	x +	4	=	(x -)	(x -)	
4		x ² -	0	x -	16	=	(x -)	(x +)	
5		x ² -	9	x -	90	=	(x -)	(x +)	
6		x ² -	10	x -	39	=	(x -)	(x +)	
7		x ² +		x -	210	=	(x -		)	(x +)	
8		x ² +	12	x +	35	=	(x +		)	(x +)	
9		x ² -	28	x +	195	=	(x -		)	(x -)	
10		x ² +	11	x -	42	=	(x -		)	(x +)	
11		x ² -	0	x -	4	=	(x +		)	(x -)	
12		x ² -	17	x +	52	=	(x -		)	(x -)	
13		x ² -	19	x +	90	=	(x -		)	(x -)	
14		x ² -	14	x +	40	=	(x -		)	(x -)	
15		x ² -	14	x +	48	=	(x -		)	(x -)	
16		x ² +	3	x -	18	=	(x		)	(x)	
17		x ² +	20	x +	96	=	(x		)	(x)	
18		x ² +	6	x -	40	=	(x		)	(x)	
19		x ² +		x -	156	=	(x		)	(x)	
20		x ² -	7	x -	0	=	(x		)	(x)	
21		x ² -	3	x -	180	=	(x		)	(x)	
22		x ² +	29	x +	210	=	(x		)	(x)	
23		x ² -	7	x -	0	=	(x		)	(x)	
24		x ² -	16	x +	64	=	(x		)	(x)	
25		x ² -	5	x -	24	=	(x		)	(x)	
26		x ² -	9	x -	70	=	(x		)	(x)	
27		x ² +	19	x +	84	=	(x		)	(x)	
28		x ² +	3	x -	18	=	(x		)	(x)	
29		x ² -	26	x +	165	=	(x		)	(x)	
30		x ² +	5	x -	50	=	(x		)	(x)	
31		2 x ² +	8	x -	10	=	2 (x +		)	(x -)	
32		3 x ² -	6	x -	240	=	3 (x -		)	(x +)	
33		2 x ² +	28	x +	66	=	2 (x +		)	(x +)	
34		4 x ² -	60	x +	200	=	4 (x -		)	(x -)	
35		x ² +	5	x -	84	=	(x +		)	(x -)	
36		-3 x ² -	39	x -	66	=	-3 (x +		)	(x +)	
37		-5 x ² +	45	x -	90	=	-5 (x -		)	(x -)	
38		-4 x ² +	8	x -	0	=	-4 (x -		)	(x -)	
39		-4 x ² -	20	x +	200	=	-4 (x +		)	(x -)	
40		-5 x ² +	30	x +	360	=	-5 (x +		)	(x -)	

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