

# Umformen quadratischer Terme mit dem Satz von Vieta

#250738

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

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Aufg.	a	x <sup>2</sup> +	b	x +	c	=	a	(x -	x1	)	(x -	x2	)
1		x <sup>2</sup> +	25	x +	156	=	(x +		)	(x +		)	
2		x <sup>2</sup> +	3	x -	0	=	(x +		)	(x -		)	
3		x <sup>2</sup> -	6	x +	9	=	(x -		)	(x -		)	
4		x <sup>2</sup> +	8	x +	15	=	(x +		)	(x +		)	
5		x <sup>2</sup> +	2	x -	35	=	(x -		)	(x +		)	
6		x <sup>2</sup> -	20	x +	75	=	(x -		)	(x -		)	
7		x <sup>2</sup> +	7	x -	120	=	(x -		)	(x +		)	
8		x <sup>2</sup> -	4	x -	165	=	(x -		)	(x +		)	
9		x <sup>2</sup> -	4	x -	117	=	(x -		)	(x +		)	
10		x <sup>2</sup> +	12	x +	35	=	(x +		)	(x +		)	
11		x <sup>2</sup> -	6	x -	91	=	(x -		)	(x +		)	
12		x <sup>2</sup> +	8	x -	65	=	(x +		)	(x -		)	
13		x <sup>2</sup> +	9	x -	0	=	(x -		)	(x +		)	
14		x <sup>2</sup> +	24	x +	135	=	(x +		)	(x +		)	
15		x <sup>2</sup> +	26	x +	165	=	(x +		)	(x +		)	
16		x <sup>2</sup> +	6	x -	91	=	(x		)	(x		)	
17		x <sup>2</sup> -	2	x +	1	=	(x		)	(x		)	
18		x <sup>2</sup> -	18	x +	45	=	(x		)	(x		)	
19		x <sup>2</sup> +	10	x +	9	=	(x		)	(x		)	
20		x <sup>2</sup> -	17	x +	72	=	(x		)	(x		)	
21		x <sup>2</sup> +	18	x +	72	=	(x		)	(x		)	
22		x <sup>2</sup> -	2	x +	1	=	(x		)	(x		)	
23		x <sup>2</sup> +	16	x +	60	=	(x		)	(x		)	
24		x <sup>2</sup> +	16	x +	39	=	(x		)	(x		)	
25		x <sup>2</sup> -	14	x +	40	=	(x		)	(x		)	
26		x <sup>2</sup> -	6	x -	72	=	(x		)	(x		)	
27		x <sup>2</sup> -	10	x +	16	=	(x		)	(x		)	
28		x <sup>2</sup> -	4	x -	21	=	(x		)	(x		)	
29		x <sup>2</sup> +	27	x +	182	=	(x		)	(x		)	
30		x <sup>2</sup> +	12	x +	35	=	(x		)	(x		)	
31	3	x <sup>2</sup> -	15	x -	18	=	3	(x -		)	(x +		)
32	2	x <sup>2</sup> -	46	x +	260	=	2	(x -		)	(x -		)
33	3	x <sup>2</sup> -	33	x +	84	=	3	(x -		)	(x -		)
34		x <sup>2</sup> -	14	x +	45	=	(x -		)	(x -		)	
35		x <sup>2</sup> +	5	x -	50	=	(x +		)	(x -		)	
36	-3	x <sup>2</sup> +	27	x +	270	=	-3	(x -		)	(x +		)
37	-5	x <sup>2</sup> +	50	x -	120	=	-5	(x -		)	(x -		)
38	-4	x <sup>2</sup> +	76	x -	280	=	-4	(x -		)	(x -		)
39	-2	x <sup>2</sup> +	38	x -	168	=	-2	(x -		)	(x -		)
40	-3	x <sup>2</sup> +	81	x -	546	=	-3	(x -		)	(x -		)

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