

Selbsttest quadratische Funktionen

Aufgabe: Bestimmen Sie die Nullstellen :

- a) $f: \mathbb{R} \rightarrow \mathbb{R}: f(x) = x^2 - 6x + 8$
- b) $f: \mathbb{R} \rightarrow \mathbb{R}: f(x) = x^2 - 13x + 36$
- c) $f: \mathbb{R} \rightarrow \mathbb{R}: f(x) = x^2 + 9x + 14$
- d) $f: \mathbb{R} \rightarrow \mathbb{R}: f(x) = x^2 + 2x - 3$
- e) $f: \mathbb{R} \rightarrow \mathbb{R}: f(x) = x^2 - 9x + 8$
- f) $f: \mathbb{R} \rightarrow \mathbb{R}: f(x) = x^2 + 12x + 36$
- g) $f: \mathbb{R} \rightarrow \mathbb{R}: f(x) = x^2 - 12x + 35$
- h) $f: \mathbb{R} \rightarrow \mathbb{R}: f(x) = x^2 + 17x + 70$
- i) $f: \mathbb{R} \rightarrow \mathbb{R}: f(x) = x^2 + 5x + 6$
- j) $f: \mathbb{R} \rightarrow \mathbb{R}: f(x) = x^2 + 5x - 14$
- k) $f: \mathbb{R} \rightarrow \mathbb{R}: f(x) = x^2 - 10x + 24$
- l) $f: \mathbb{R} \rightarrow \mathbb{R}: f(x) = x^2 - 3x - 54$
- m) $f: \mathbb{R} \rightarrow \mathbb{R}: f(x) = x^2 - 81$
- n) $f: \mathbb{R} \rightarrow \mathbb{R}: f(x) = x^2 - 64$
- o) $f: \mathbb{R} \rightarrow \mathbb{R}: f(x) = x^2 - 18x + 81$
- p) $f: \mathbb{R} \rightarrow \mathbb{R}: f(x) = x^2 - 4x - 45$
- q) $f: \mathbb{R} \rightarrow \mathbb{R}: f(x) = x^2 - 81$
- r) $f: \mathbb{R} \rightarrow \mathbb{R}: f(x) = x^2 + 2x - 48$
- s) $f: \mathbb{R} \rightarrow \mathbb{R}: f(x) = x^2 - 6x + 8$
- t) $f: \mathbb{R} \rightarrow \mathbb{R}: f(x) = x^2 - 3x - 10$

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Lösungen: Bestimmen Sie die Nullstellen :

a) $f: \mathbb{R} \rightarrow \mathbb{R}: f(x) = x^2 - 6x + 8$	L:	$x_1 = 2;$	$x_2 = 4$
b) $f: \mathbb{R} \rightarrow \mathbb{R}: f(x) = x^2 - 13x + 36$	L:	$x_1 = 4;$	$x_2 = 9$
c) $f: \mathbb{R} \rightarrow \mathbb{R}: f(x) = x^2 + 9x + 14$	L:	$x_1 = -2;$	$x_2 = -7$
d) $f: \mathbb{R} \rightarrow \mathbb{R}: f(x) = x^2 + 2x - 3$	L:	$x_1 = -3;$	$x_2 = 1$
e) $f: \mathbb{R} \rightarrow \mathbb{R}: f(x) = x^2 - 9x + 8$	L:	$x_1 = 1;$	$x_2 = 8$
f) $f: \mathbb{R} \rightarrow \mathbb{R}: f(x) = x^2 + 12x + 36$	L:	$x_1 = -6;$	$x_2 = -6$
g) $f: \mathbb{R} \rightarrow \mathbb{R}: f(x) = x^2 - 12x + 35$	L:	$x_1 = 5;$	$x_2 = 7$
h) $f: \mathbb{R} \rightarrow \mathbb{R}: f(x) = x^2 + 17x + 70$	L:	$x_1 = -7;$	$x_2 = -10$
i) $f: \mathbb{R} \rightarrow \mathbb{R}: f(x) = x^2 + 5x + 6$	L:	$x_1 = -3;$	$x_2 = -2$
j) $f: \mathbb{R} \rightarrow \mathbb{R}: f(x) = x^2 + 5x - 14$	L:	$x_1 = -7;$	$x_2 = 2$
k) $f: \mathbb{R} \rightarrow \mathbb{R}: f(x) = x^2 - 10x + 24$	L:	$x_1 = 6;$	$x_2 = 4$
l) $f: \mathbb{R} \rightarrow \mathbb{R}: f(x) = x^2 - 3x - 54$	L:	$x_1 = -6;$	$x_2 = 9$
m) $f: \mathbb{R} \rightarrow \mathbb{R}: f(x) = x^2 - 81$	L:	$x_1 = 9;$	$x_2 = -9$
n) $f: \mathbb{R} \rightarrow \mathbb{R}: f(x) = x^2 - 64$	L:	$x_1 = 8;$	$x_2 = -8$
o) $f: \mathbb{R} \rightarrow \mathbb{R}: f(x) = x^2 - 18x + 81$	L:	$x_1 = 9;$	$x_2 = 9$
p) $f: \mathbb{R} \rightarrow \mathbb{R}: f(x) = x^2 - 4x - 45$	L:	$x_1 = 9;$	$x_2 = -5$
q) $f: \mathbb{R} \rightarrow \mathbb{R}: f(x) = x^2 - 81$	L:	$x_1 = 9;$	$x_2 = -9$
r) $f: \mathbb{R} \rightarrow \mathbb{R}: f(x) = x^2 + 2x - 48$	L:	$x_1 = 6;$	$x_2 = -8$
s) $f: \mathbb{R} \rightarrow \mathbb{R}: f(x) = x^2 - 6x + 8$	L:	$x_1 = 4;$	$x_2 = 2$
t) $f: \mathbb{R} \rightarrow \mathbb{R}: f(x) = x^2 - 3x - 10$	L:	$x_1 = -2;$	$x_2 = 5$