

Bilde die Scheitelform mittels quadratischer Ergänzung:

<u>Aufgaben</u>	<u>Lösungen</u>
1 . $f(x) = x^2 + 12x - 1$	$f(x) = (x + 6)^2 - 37$
2 . $f(x) = x^2 - 24x + 8$	$f(x) = (x - 12)^2 - 136$
3 . $f(x) = x^2 + 2x - 10$	$f(x) = (x + 1)^2 - 11$
4 . $f(x) = x^2 + 8x - 3$	$f(x) = (x + 4)^2 - 19$
5 . $f(x) = x^2 + 20x - 14$	$f(x) = (x + 10)^2 - 114$
6 . $f(x) = x^2 + 18x + 15$	$f(x) = (x + 9)^2 - 66$
7 . $f(x) = x^2 - 14x + 8$	$f(x) = (x - 7)^2 - 41$
8 . $f(x) = x^2 - 14x + 13$	$f(x) = (x - 7)^2 - 36$
9 . $f(x) = x^2 + 22x + 12$	$f(x) = (x + 11)^2 - 109$
10 . $f(x) = x^2 - 26x - 1$	$f(x) = (x - 13)^2 - 170$
11 . $f(x) = x^2 + 14x$	$f(x) = (x + 7)^2 - 49$
12 . $f(x) = x^2 - 12x + 1$	$f(x) = (x - 6)^2 - 35$
13 . $f(x) = x^2 + 8x + 5$	$f(x) = (x + 4)^2 - 11$
14 . $f(x) = x^2 + 6x + 3$	$f(x) = (x + 3)^2 - 6$
15 . $f(x) = x^2 + 26x - 10$	$f(x) = (x + 13)^2 - 179$
16 . $f(x) = x^2 + 14x + 12$	$f(x) = (x + 7)^2 - 37$
17 . $f(x) = x^2 + 13$	$f(x) = x^2 + 13$
18 . $f(x) = x^2 + 6x + 13$	$f(x) = (x + 3)^2 + 4$
19 . $f(x) = x^2 - 20x - 14$	$f(x) = (x - 10)^2 - 114$
20 . $f(x) = x^2 - 10x + 7$	$f(x) = (x - 5)^2 - 18$
21 . $f(x) = x^2 + 18x - 10$	$f(x) = (x + 9)^2 - 91$
22 . $f(x) = x^2 - 6$	$f(x) = x^2 - 6$
23 . $f(x) = x^2 - 8x + 9$	$f(x) = (x - 4)^2 - 7$
24 . $f(x) = x^2 - 8x + 15$	$f(x) = (x - 4)^2 - 1$