Normalform -> Scheitelpunktform

Klappe zum Rechnen im Heft die Lösungen an der gestrichelten Linie nach hinten. Nach dem Lösen der Aufgaben kannst Du die Lösungen zurück klappen und vergleichen. Viel Erfolg!

Lösungen:

a)	$y = x^2$	$+ 6x$	$+ 1$	$y = (x + 3)^2 - 8$
b)	$y = x^2$	$+ 14x$	$+ 44$	$y = (x + 7)^2 - 5$
c)	$y = x^2$	$+ 4x$	$- 2$	$y = (x + 2)^2 - 6$
d)	$y = x^2$	$- 8x$	$+ 12$	$y = (x - 4)^2 - 4$
e)	$y = x^2$	$- 16x$	$+ 68$	$y = (x - 8)^2 + 4$
f)	$y = x^2$	$- 12x$	$+ 34$	$y = (x - 6)^2 - 2$
g)	$y = x^2$	$- 6x$	$+ 14$	$y = (x - 3)^2 + 5$
h)	$y = x^2$	$- 4x$	$+ 11$	$y = (x - 2)^2 + 7$
i)	$y = x^2$	$- 2x$	$- 1$	$y = (x - 1)^2 - 2$
j)	$y = x^2$	$- 10x$	$+ 31$	$y = (x - 5)^2 + 6$
k)	$y = x^2$	$- 10x$	$+ 27$	$y = (x - 5)^2 + 2$
l)	$y = x^2$	$+ 2x$	$+ 8$	$y = (x + 1)^2 + 7$
m)	$y = x^2$	$- 14x$	$+ 57$	$y = (x - 7)^2 + 8$
n)	$y = x^2$	$- 14x$	$+ 56$	$y = (x - 7)^2 + 7$
o)	$y = x^2$	$+ 12x$	$+ 33$	$y = (x + 6)^2 - 3$
p)	$y = x^2$	$- 8x$	$+ 20$	$y = (x - 4)^2 + 4$
q)	$y = x^2$	$- 6x$	$+ 8$	$y = (x - 3)^2 - 1$
r)	$y = x^2$	$- 10x$	$+ 23$	$y = (x - 5)^2 - 2$
s)	$y = x^2$	$+ 6x$	$+ 14$	$y = (x + 3)^2 + 5$
t)	$y = x^2$	$- 4x$	$+ 1$	$y = (x - 2)^2 - 3$
u)	$y = x^2$	$+ 6x$	$+ 2$	$y = (x + 3)^2 - 7$
v)	$y = x^2$	$+ 4x$	$+ 10$	$y = (x + 2)^2 + 6$
w)	$y = x^2$	$- 4x$	$+ 11$	$y = (x - 2)^2 + 7$
x)	$y = x^2$	$- 6x$	$+ 4$	$y = (x - 3)^2 - 5$
y)	$y = x^2$	$+ 8x$	$+ 12$	$y = (x + 4)^2 - 4$
z)	$y = x^2$	$0x$	$- 5$	$y = (x \quad 0)^2 - 5$