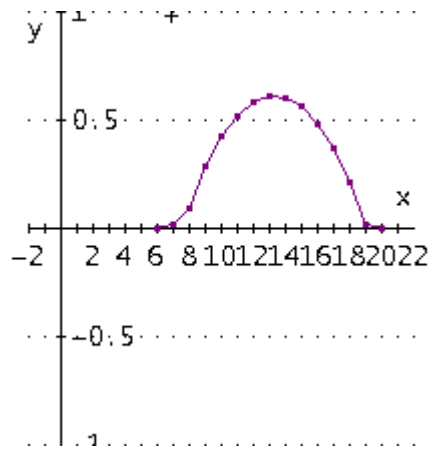


#1: Solarkurve



#2: $W :=$

6	0
7	0.022
8	0.09
9	0.287
10	0.424
11	0.52
12	0.58
13	0.611
14	0.6
15	0.569
16	0.478
17	0.374
18	0.209
19	0.022
20	0

#3: Ansatz: Taylorpolynom für Sinus

#4: $g(x) := -x^{11} \cdot a + x^9 \cdot b - x^7 \cdot c + x^5 \cdot d - x^3 \cdot e + f \cdot x + h$

#5: $v(i) := W_{i,2} - g(W_{i,1})$

#6: $s := \sum_{i=1}^{15} v(i)^2$

$$\#7: \frac{d}{da} s = 0 \wedge \frac{d}{db} s = 0 \wedge \frac{d}{dc} s = 0 \wedge \frac{d}{dd} s = 0 \wedge \frac{d}{de} s = 0 \wedge \frac{d}{df} s = 0 \wedge \frac{d}{dh} s = 0$$

$$\#8: a1 := -4.261693622 \cdot 10^{-13}$$

$$\#9: b1 := -5.5075122 \cdot 10^{-10}$$

$$\#10: c1 := -2.834285633 \cdot 10^{-7}$$

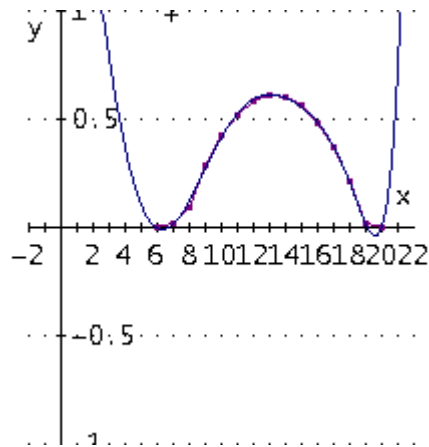
$$\#11: d1 := -7.415844241 \cdot 10^{-5}$$

$$\#12: e1 := -0.01016359233$$

$$\#13: f1 := -0.7421443087$$

$$\#14: h1 := 2.758638267$$

$$\#15: g1(x) := -x^{11} \cdot a1 + x^9 \cdot b1 - x^7 \cdot c1 + x^5 \cdot d1 - x^3 \cdot e1 + f1 \cdot x + h1$$



#16: Summe der Fehlerquadrate:

$$\#17: v1(i) := W_{i,2} - g1(W_{i,1})$$

$$\#18: s1 := \sum_{i=1}^{15} v1(i)^2$$

$$\#19: s1 = 0.002058432968$$

#20: Summe der Fehlerquadrate = 2 Tausendstel ist o.k.