

2210 $f(t) ^\circ\text{C}$ t minuter efter starten

$$\begin{aligned} a) f'(t) &= 60 - 2t \\ &= 60 - 2(25) \\ &= 10 \end{aligned}$$

Temperaturen ökar med 10°C per minute

$$\begin{aligned} f'(25) &= 60 - 2 \cdot 25 \\ f'(40) &= 60 - 2 \cdot 40 \\ &= -20^\circ\text{C per minute} \end{aligned}$$

$$\begin{aligned} 0 &= 60 - 2t \\ 2t &= 60 \\ t &= 30 \quad t = \text{minuten} \end{aligned}$$