$with(Gym)$:

LOD	VÆGT	AFSTAND
-	-	8.3 cm
0	20.08 g	−9.6 cm
1 (20)	40.18 g	−11.05 cm
2 (50)	70.14 g	−13.1 cm
3 (50 + 20)	90.25 g	−14.5 cm
4 (50 + 50)	120.27 g	−16.55 cm
5 (50 + 50 + 20)	140.60 g	−17.97 cm
6 (50 + 50 + 50)	170.32 g	−19.96 cm
7 (50 + 50 + 50 +20)	190.46 g	−21.34 cm
8 (50 + 50 + 50 +50)	220.39 g	−23.48 cm
9 (50 + 50 + 50 + 50 + 20)	240.54 g	−24.8 cm
10 (50 +50 + 50 + 50 + 50)	270.59 g	−26.84 cm

$m := [(0\,g, 20.08\,g, 40.18\,g, 70.14\,g, 90.25\,g, 120.27\,g, 140.60\,g, 170.32\,g, 190.46\ g, 220.39\,g, 240.54\,g, 270.59\,g)]$

$=$

$[0, 20.08\ g, 40.18\ g, 70.14\ g, 90.25\ g, 120.27\ g, 140.60\ g, 170.32\ g, 190.46\ g, 220.39\ g, 240.54\ g, 270.59\ g]$

Før vi skriver data ind til x_0, lægger vi lige 8.3 til dem alle sammen.

$x_0 := [(0\,cm, -1.3\,cm, -2.75\,cm, -4.8\,cm, -6.2\,cm, -8.25\,cm, -9.67\,cm, -11.66\,cm, -13.04\,cm, -15.18\,cm, -16.5\,cm, -18.54\ cm)]$

$=$

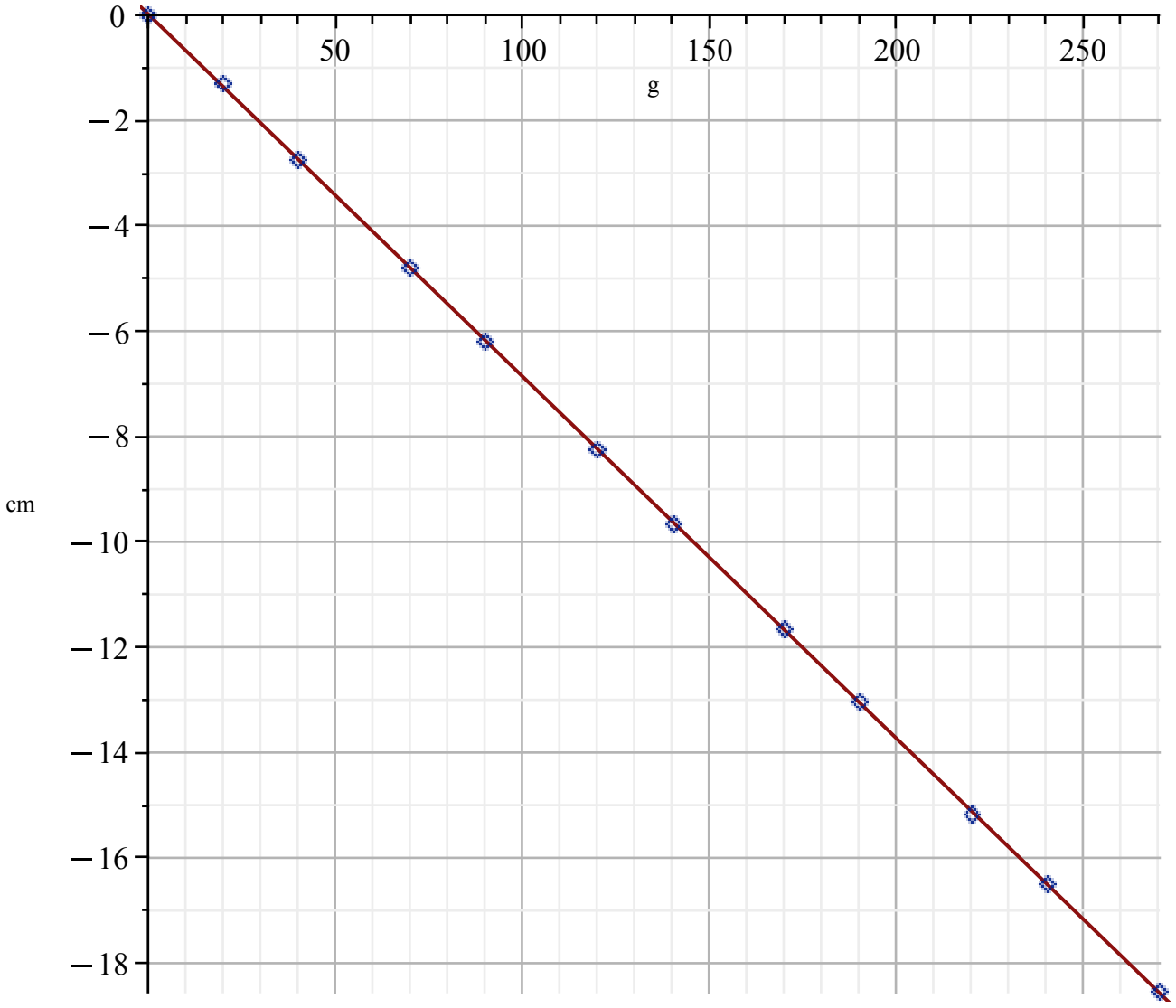
$[0, -1.3\ cm, -2.75\ cm, -4.8\ cm, -6.2\ cm, -8.25\ cm, -9.67\ cm, -11.66\ cm, -13.04\ cm, -15.18\ cm, -16.5\ cm, -18.54\ cm]$

$LinReg(m, x_0)$

Lineær regression

$$y = -0.068709\,x\ \frac{\text{cm}}{\text{g}} + 0.020406\ \text{cm}.$$

Forklaringsgrad $R^2 = 0.99997$



Til at påvise forsøg 2 igen:
m = 170.34 g

$$-0.068709\frac{\text{cm}}{\text{g}} = -\frac{9.82\frac{\text{m}}{\text{s}^2}}{k} \xrightarrow{\text{solve}} \left\{k = 14.29215969\ \frac{\text{kg}}{\text{s}^2}\right\}$$