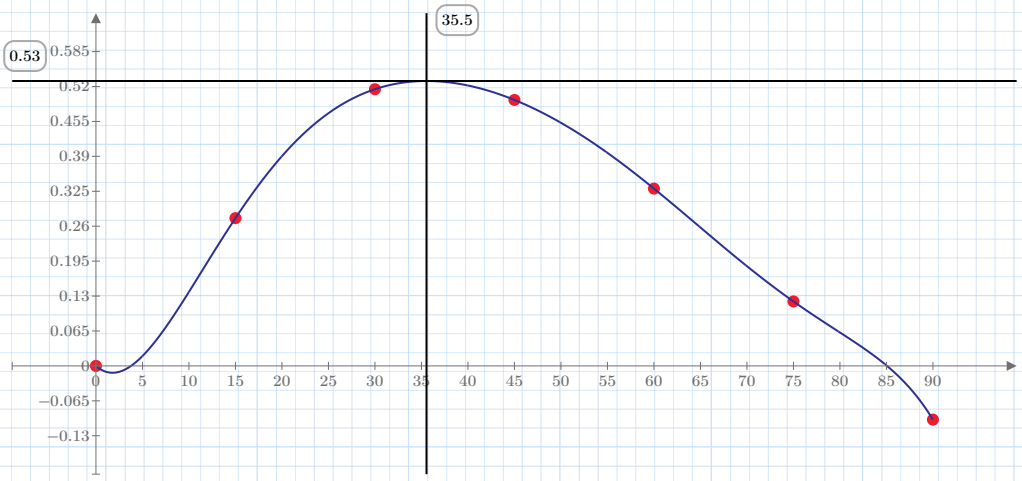
$\theta_{data} := [0 \ \ 15 \ \ 30 \ \ 45 \ \ 60 \ \ 75 \ \ 90]^{T} \cdot deg$

$GZ_{data} := [0 \ \ 0.275 \ \ 0.515 \ \ 0.495 \ \ 0.33 \ \ 0.12 \ \ -0.1]^{T} \cdot m$

$\theta_x := 0 \ deg, 0.01 \ deg .. 90 \ deg$

$Curve := \text{polyfit}(\theta_{data}, GZ_{data}, 7)$



$GZ_{data}\ (m)$

$Curve(\theta_x)\ (m)$

$\theta_{data}\ (deg)$

$\theta_x\ (deg)$

I now need to evaluate the graph in two ways. One I need to find what the largest value on the y value is and then the point at which the curve crosses the x axis (for the second time).

...use the numerical Solve block:

Gleichungsbedingungen lösen

Schätzwerte

$\theta_x := 36 \ deg$

Gleichungen

$\frac{d}{d\theta_x} Curve(\theta_x) = 0$

Variable

$\theta_{x\_max} := \text{find}(\theta_x)$

$\theta_{x\_max} = 35.545 \ °$

$Curve_{max} := Curve(\theta_{x\_max}) = 0.53 \ m$