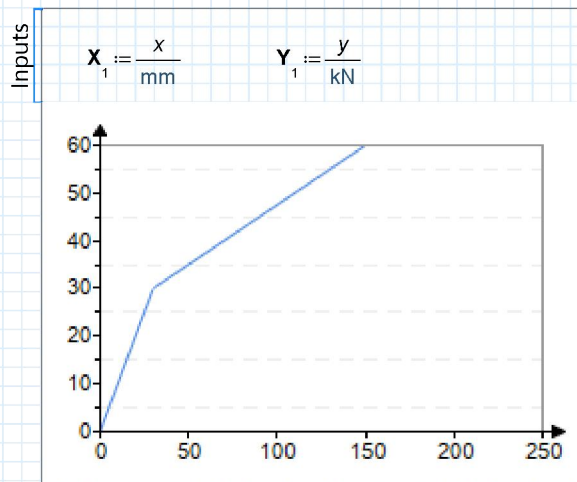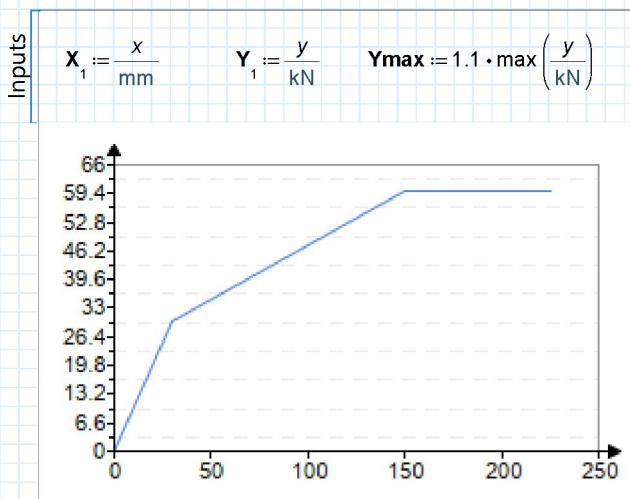$$x := \begin{bmatrix} 0 \\ 0.03 \\ 0.15 \\ 0.225 \end{bmatrix} m \qquad y := \begin{bmatrix} 0 \\ 30 \\ 60 \\ 60 \end{bmatrix} kN$$

In the graph below, horizontal line at maximum y (y=60kN) does not show, but the values at the y-axis look decent as the values are integers and increase between values is 5kN.

$$X_1 := \frac{x}{mm} \qquad Y_1 := \frac{y}{kN}$$

In the graph below, horizontal line at maximum y (y=60kN) is showing, but the values in the y -axis have desimal values.

$$X_1 := \frac{x}{mm} \qquad Y_1 := \frac{y}{kN} \qquad Ymax := 1.1 \cdot \max\left(\frac{y}{kN}\right)$$

So what I would like to get is that the following graph would appear automatically, without manual setting of max axis values or manual selection of number of horizontal lines. Is there some way to achieve this?

$$X_1 := \frac{x}{mm} \qquad Y_1 := \frac{y}{kN} \qquad Ymax := \frac{70\ kN}{kN}$$