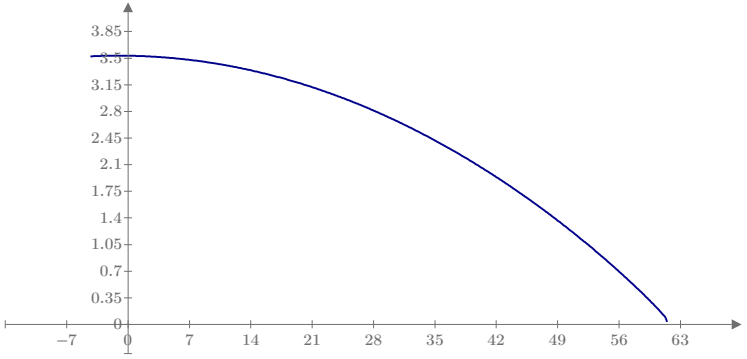
$$\tau_{zym}(y_{br}) \quad \frac{\frac{T_{AA}}{2}}{\frac{J_{ACn}}{2}} \cdot \frac{S_{1ACn}(y_{br})}{2\ b_r(y_{br})} \qquad b_r(y_{br}) := \sqrt{R^2 - (y_{br} - y_G)^2} - r$$




$\tau_{zym}(y_{br})$ $\left(\frac{kgf}{mm^2}\right)$

$y_{br}$ $(mm)$

$$\tau_{zym}(0) = 3.532\ \frac{kgf}{mm^2}$$

$$\tau_m := \frac{T_{AA}}{2 \cdot (A_1 + A_2)} = 2.107\ \frac{kgf}{mm^2}$$

$$\alpha(y_{br}) := \frac{180}{\pi} \cdot \operatorname{atan}\left(\frac{y_{br} - y_G}{b_r(y_{br}) + r}\right)$$