

$$L := t \mapsto 2.8 \cdot \sin\left(\frac{2 \cdot \pi}{365} \cdot (t - 80)\right) + 12$$

$$L := t \mapsto 2.8 \sin\left(\frac{2 \pi (t - 80)}{365}\right) + 12 \quad (1)$$

$$Lp := D(L)$$

$$Lp := t \mapsto 0.01534246575 \pi \cos\left(\frac{2 \pi (t - 80)}{365}\right) \quad (2)$$

$$Lp(80)$$

$$0.04819977769 \quad (3)$$

with(*plots*) :

plot($2 \cdot \sin(x) + \sin(x)^2$, $x = -6 \cdot \text{Pi} .. 6 \cdot \text{Pi}$, *color* = *black*, *thickness* = 3, *scaling* = *constrained*)

