

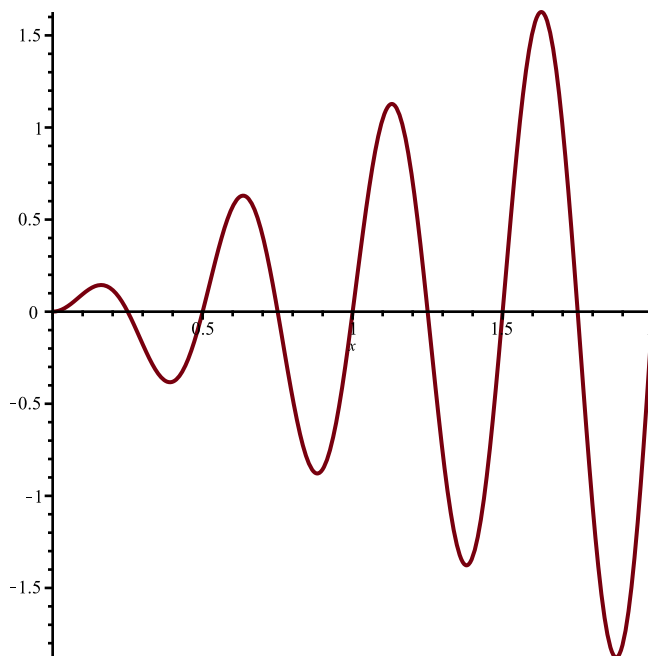
$$f := x \rightarrow x \cdot \sin(4 \text{ Pi} \cdot x)$$

$$f := x \mapsto x \cdot \sin(4 \cdot \pi \cdot x)$$

(1)

with(*plots*) :

plot($f(x)$, $x = 0 \dots 2$)

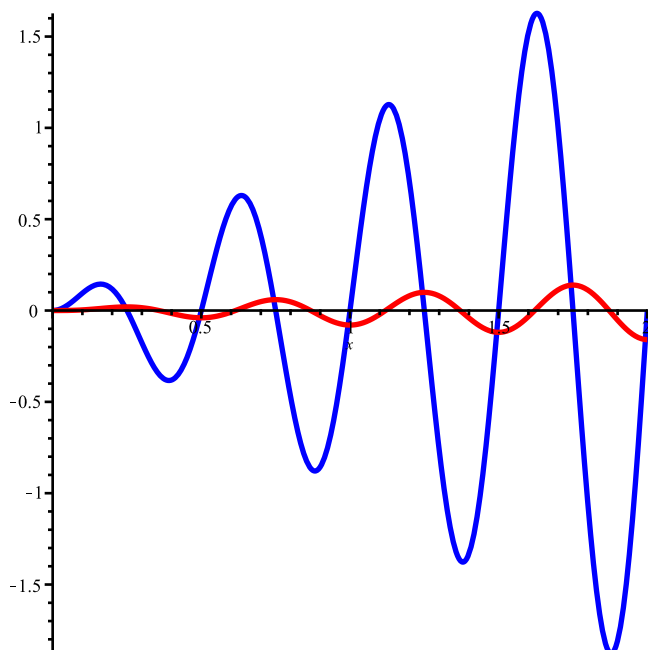


$$g := x \rightarrow \int_0^x f(x) \, dx$$

$$g := x \mapsto \int_0^x f(x) \, dx$$

(2)

plot($[f(x), g(x)]$, $x = 0 \dots 2$, *color* = [*blue*, *red*], *thickness* = 2)



$$\int_0^2 |x^2 - x^3| \, dx$$

$$\frac{3}{2} \tag{3}$$

$$\int_0^1 \left(x + \sqrt{1 - x^2}\right) \, dx$$

$$\frac{1}{2} + \frac{\pi}{4} \tag{4}$$

$$evalf(\%)$$

$$1.285398164 \tag{5}$$