

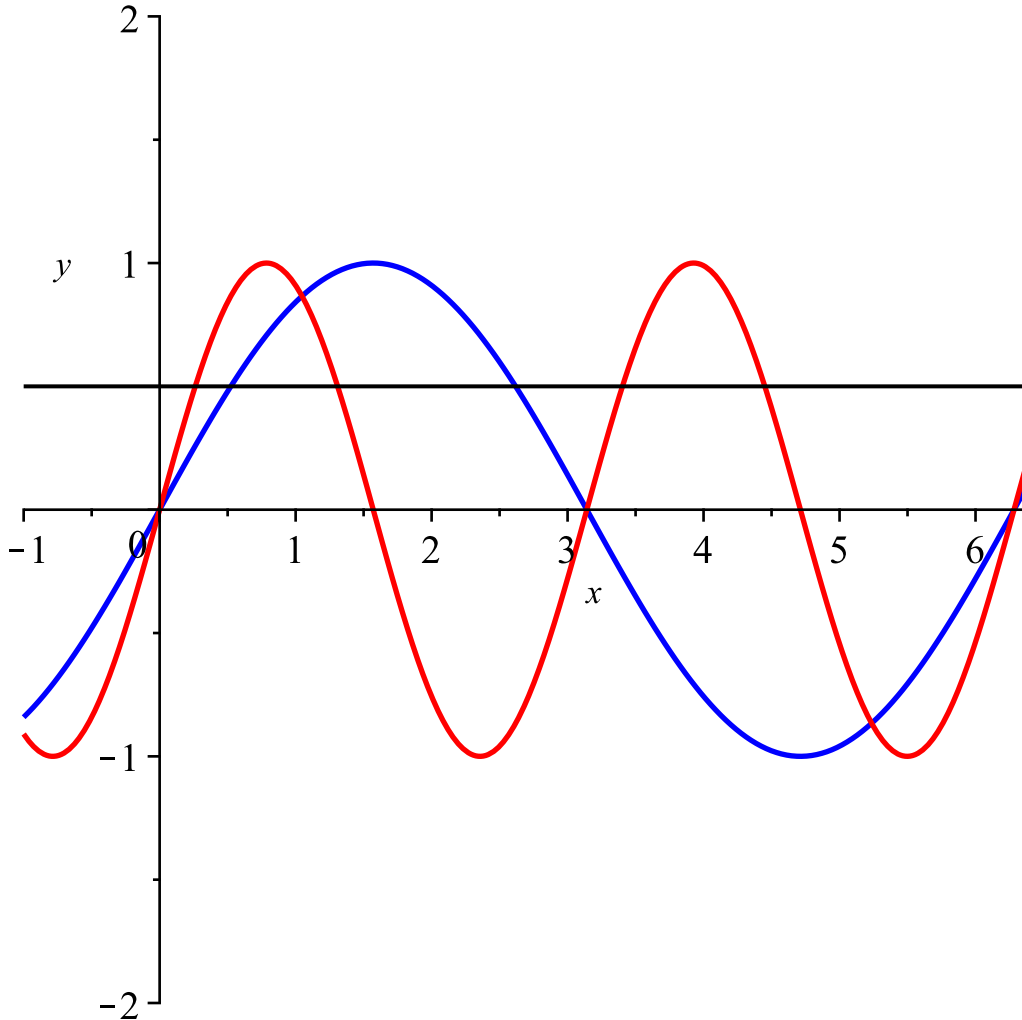
$f := x \rightarrow \sin(x)$

$f := x \mapsto \sin(x)$

(1)

with(plots) :

plot($\left[f(x), f(2 \cdot x), \frac{1}{2} \right]$, $x = -1 .. 2 \cdot \text{Pi} + .11$, $y = -2 .. 2$, $color = [blue, red, black]$, $thickness = [2, 2, 1]$)



$-\frac{\sqrt{-\sqrt{3} + 2}}{2}$

$-\frac{\sqrt{6}}{4} + \frac{\sqrt{2}}{4}$

(2)

evalf(%)

-0.2588190453

(3)

$\frac{(\sqrt{2} - \sqrt{6})}{4}$

$-\frac{\sqrt{6}}{4} + \frac{\sqrt{2}}{4}$

(4)

evalf(%)

-0.2588190453

(5)

$$\frac{\arcsin\left(-\frac{2}{7}\right) \cdot 180}{\text{Pi}}$$

$$-\frac{180 \arcsin\left(\frac{2}{7}\right)}{\pi} \quad (6)$$

evalf(%)

$$-16.60154959 \quad (7)$$

-% + 180

$$196.6015496 \quad (8)$$

%.2

$$393.2030992 \quad (9)$$