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

$$f := x \mapsto x \cdot \sin(x) \tag{1}$$

$fp := D(f)$

$$fp := x \mapsto \sin(x) + x \cdot \cos(x) \tag{2}$$

$fpp := D(fp)$

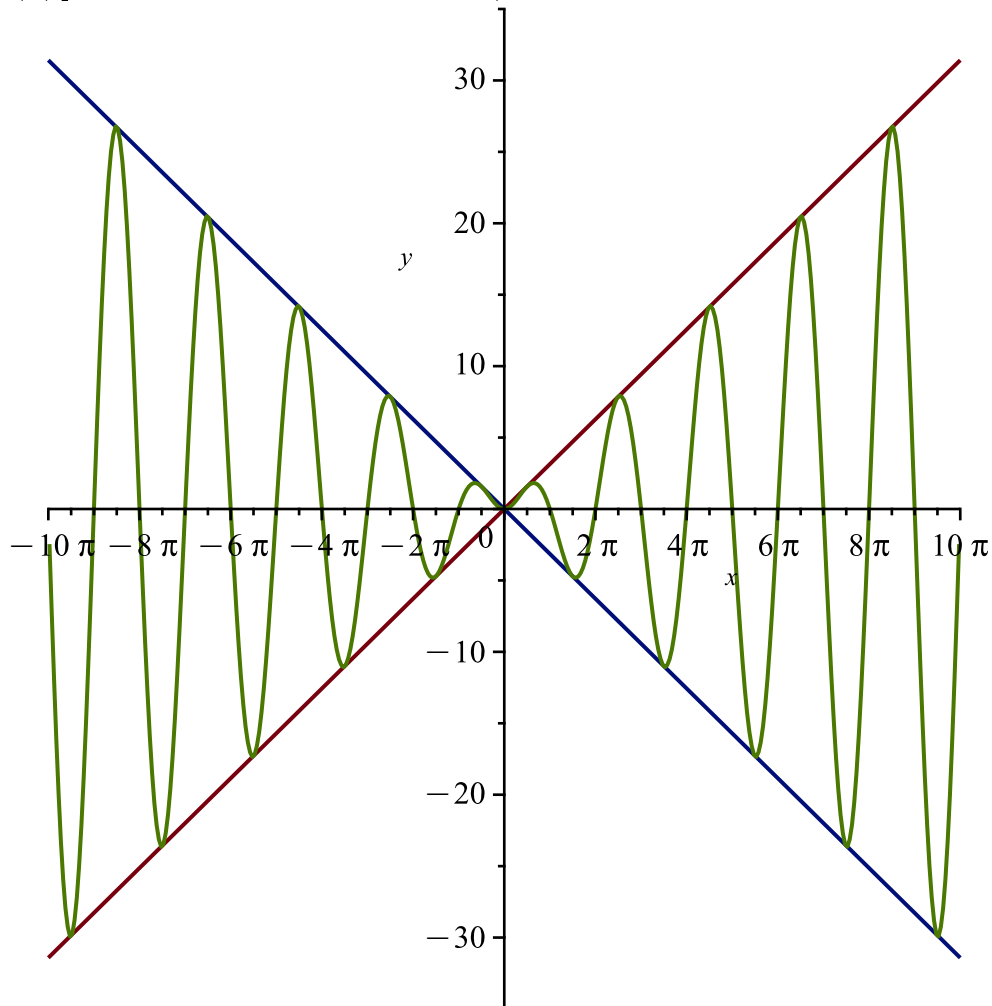$$fpp := x \mapsto 2 \cdot \cos(x) - x \cdot \sin(x) \tag{3}$$

$solve(fp(x) = 0)$

$$RootOf(\tan(\_Z) + \_Z) \tag{4}$$

Not much help!
$with(plots):$
$plot([x, -x, f(x)], x = -10 \cdot Pi .. 10 \cdot Pi, y = -35 .. 35)$

$solve(\sin(x) = 1)$

$$\frac{\pi}{2} \tag{5}$$

$fp(x)$

$$\sin(x) + x \cos(x) \tag{6}$$

$fp\left(\dfrac{Pi}{2}\right)$

(7)

$h := x \rightarrow x + \tan(x)$

$$h := x \mapsto x + \tan(x)$$ **(8)**

$h\left(\dfrac{\text{Pi}}{2}\right)$

Error, (in tan) numeric exception: division by zero