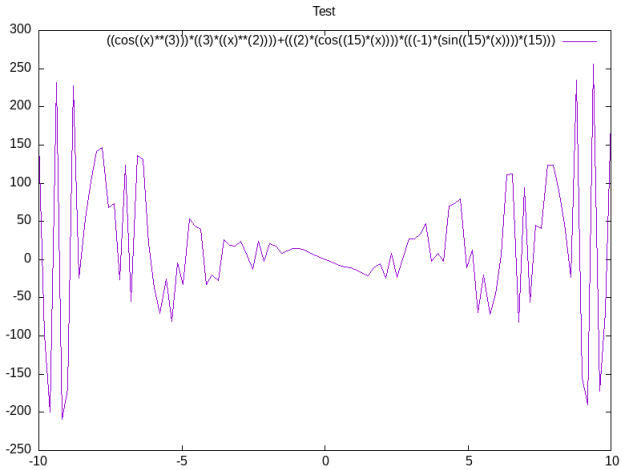
Original formula:

$$sin(x^3) + cos((15) \cdot (x))^2$$

Differentiated formula (simplified):

$$(cos(x^3)) \cdot ((3) \cdot (x^2)) + ((2) \cdot (cos((15) \cdot (x)))) \cdot (((-1) \cdot (sin((15) \cdot (x)))) \cdot (15))$$



Result, after definnig x as 0: **0**

Teylor series (4 members):

$$F(x) = 1 + \frac{-450}{2!} \cdot x^2 + \frac{6}{3!} \cdot x^3 + o(x^4);$$