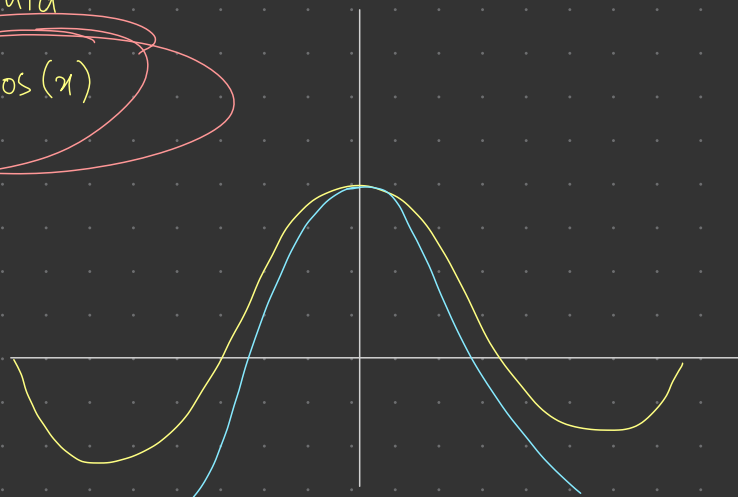


Taking a step further...

$f''(x)$ should

be $\frac{d^2}{dx^2} \cos(x)$



$$\frac{d^2}{dx^2} \cos(x) = -\cos(x)$$

$$f(x) = \underline{1} + \underline{0}x + \underline{c_2} x^2$$

derivative $\rightarrow f'(x) = 1 \cdot \underline{2} c_2 x$

curvature $\rightarrow f''(x) = 1 \cdot \underline{2} c_2$

$$-\cos(x) = 2c_2$$

$$c_2 =$$

$$-\cos(x)$$

$$\underline{2}$$

and this?

where did this
come from?

$$-\cos(x) = -1$$

$$c_2 = \frac{-1}{2}$$

$$f(x) = 1 + 0x + \left(\frac{-1}{2}\right)x^2$$

