3.7 Trigonometric Functions

$$X' = -1 \cdot \cos^{2}(t^{2}) \cdot (-\sin(t^{2})) \cdot T_{t}^{e} \cdot \frac{\cos^{2}(t^{2})}{T_{t}^{e}\sin(t^{2})} = T_{t}^{e} \cdot \frac{\cos(t^{2})}{\sin(t^{2})} = \frac{\cos(t^{2})}{1} = \frac{\cos(t^{2})}{1} \cdot \frac{\cos(t^{2})}{1} \cdot \frac{\cos(t^{2})}{1} \cdot \frac{\cos(t^{2})}{1} = \frac{\cos(t^{2})}{1} =$$

$$\frac{\partial x}{\partial x} = -1 \cdot \cos_{x}(x) \cdot (-2ivx) = \frac{\cos x}{2ivx} \cdot \frac{\cos x}{1} = +\cos x \cdot 26Cx$$

$$\frac{dt}{dx} = tcu(11) \cdot sec(11) \cdot \frac{5}{1}(1)_{5} \cdot tcu(11) + sec(11) \cdot sec_{5}(11) \cdot \frac{5}{1} \cdot \frac{5}{1}$$

$$\frac{\partial x}{\partial t} CJCX = \frac{\partial x}{\partial t} \left(\frac{2i\omega x}{t} \right) = -2i\omega_{x} x \cdot cot X = -\frac{2i\omega x}{cot x} \cdot \frac{2i\omega x}{t} \cdot -cot x \cdot ccc x$$

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$$y = \frac{3}{4} \sin^2(\frac{4\pi x}{3})$$
 x-5

Sin with smakes amplitude, phase orde slightly less than 2TT.

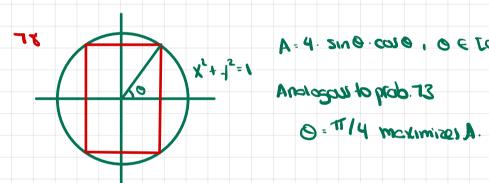
$$\gamma(9): \frac{3}{4} \sin^2(\frac{5\pi}{3}): \frac{3}{4} \cdot (-\frac{7}{3}): \frac{3}{4} \cdot \frac{3}{4} \cdot \frac{9}{4\pi}$$

$$y' = \frac{3}{4\pi} \cdot 2\sin(\frac{\pi x}{3}) \cdot \cos(\frac{\pi x}{3}) \cdot \frac{\pi}{3}$$
 Tongot ct (5, 9/41)
 $y - 9/4\pi = -\frac{\sqrt{3}}{3}(x-5)$

$$R'(\alpha) = \frac{10}{10} \left[\cos^2 \alpha - \sin^2 \alpha \right] = 0 \Rightarrow \sin^2 \alpha = \cos^2 \alpha \Rightarrow \alpha = \pi/4$$

(ledble) monument (1 4/14) a

Alleraturaly,



A = 4 - SIN 0 - COJO , O E [O, 1 /2]

Note also that A(a) = A(T(z) = 0, and A(T(4) = 4