Tutorial 01 04/08/2022

Possible steps involved in flotting function f(x)

1) determine the domain

a) look for lymonetry (even omdodd) eet...

3 Interesting points (a) zoros of function

(b) value at 0, 20, -20

Color for infinition

(d) function laking o This should able of fix the Seale and important point (e) masuma, minisma, other extrismas (3) look og behatrioer Luch as increasing decrease between enterding points Smothly plot 1

Sin x (α) domain - Do, Do function is periodic [-17, Ti] function is odd. function has zeros
at nn -on inliger maxima at # and - # minima at 35 and -35

(6) $f(x) = e^{x}$ domain (-00,00) Symmetry non_ all + re function > f(x) -> 0 out $-\infty$ at +00 f(x) fer) = 1 also are and ever incrassis

C
$$f(x) = e^{-x^2}$$
 (gammian)

domain (-0, 0)

Symmetry: even function

at -0 $f(x) \rightarrow 0$

at +0 $f(x) \rightarrow 0$

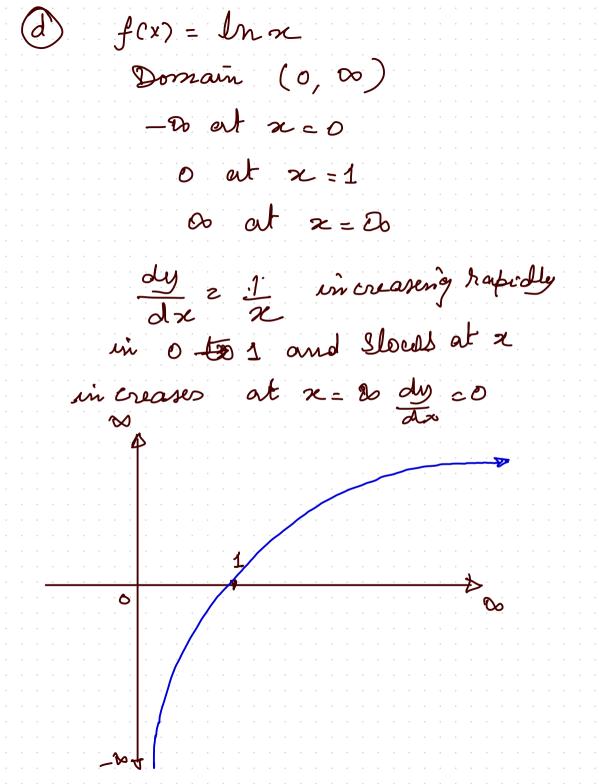
at $x = 0$ $f(x) = 1$

$$\frac{dy}{dx} = -e^{-x^2}$$

$$\frac{dx}{dx} = 0$$

$$\frac{dy}{dx} = 0$$
function in Guarin - x

$$\frac{decreasing}{dx} + xe = x$$



 $f(x) = x, x^2, x^3, x^6$ domain - Do, Do n odd function is odd n enn function is even fc x) = 0 $\frac{dy}{dn} = 1, 2\pi, 3\alpha^2, 4\alpha^3$ > y=x9

f(x) = Sma Domain (-00, 00) zero at -20 and 420 at x = 0 $\frac{0}{0}$ form to evaluate diff. los x Amplitude goes drewn as I Au au

Domain (0,00)

at
$$0$$
, $f(x) \rightarrow 0$

at $x = 1$ $f(x) = 0$

at $x = 0$ O or we can

white as $\log x = -\frac{0}{10}$ form

diff: $\frac{1}{2}$ — o at $x \rightarrow 0$
 $\frac{1}{2}$ $\frac{1}{2}$

