Assignment of 02 (in hard form) Note: Submit your assignments to GR on or 19th lupor
late submission will be rejected. De Find the Smit is it exists is the limit does not exists then explaine why? (i)  $\lim_{x\to 0.5} \frac{2n-1}{|2x^3-x^2|}$  (ii)  $\lim_{x\to 0} \left(\frac{1}{n} - \frac{1}{|x|}\right)$ .  $\lim_{x \to 4} \lim_{\sqrt{5-x} - 1} \sqrt{8-x} = 2$   $(x^2+1) = 0$ (iv) Find  $\lim_{x \to 1} f(x)$ : Where  $f(x) = \begin{cases} x^2 + 1 & \text{is } x < 1 \\ (n-2)^2 & \text{is } x > 1 \end{cases}$ (2) = Find the values of a and b that make of continous everywhere then find the derivative of from the derivative  $f(n) = \begin{cases} \frac{\pi^2 - 4}{\pi - 2} & \text{if } \pi < 2 \\ \frac{\pi - 2}{\pi - 2} & \text{if } \pi < 2 \end{cases}$   $2\pi - a + b \qquad \text{if } \pi < 2$ W 2 4x 43 (b x≥3. 10 05x22  $\frac{9^{2}}{2}$  let  $g(n)=\begin{cases} 2n-x^{2}\\ 2-x\\ x-4 \end{cases}$ 10 2 < > < < 3 10 3 < > < < 4

[j x > 4

For back of the numbers 2, 3, ad 4, discover whether
g is continenous from left, continous from right
or Continous from at the number.
Oy is Find the number and b
Dy is Find the number and b  Such that Im Jax+b -2 =1
(11) and the all values 7 a such
I de l'is continorous on R.
$f(n) = \begin{cases} -x + t & w \neq x \neq \alpha \\ x^2 & w \neq x \neq \alpha \end{cases}$
\$5:- Find The Equation of Tangent and
Hormal line to the CUNTE at the given
ponts.
(i)  f = In  P(1/1).
(un) $y=\frac{2n+1}{n+2}p(1)5$ .