

50 Limit:

Theorem: at & any ned runn her

$$\frac{1}{1000} = 3$$

$$\frac{1}$$

Thermore
$$\lim_{x \to a} f(x) = L_1$$
, $\lim_{x \to a} g(x) = L_2$

$$\lim_{x \to a} \left[f(x) + g(x) \right] = \lim_{x \to a} f(x) + \lim_{x \to a} g(x) = L_1 + L_2$$

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TI IS ENON

$$\frac{1}{2} \frac{1}{2} \frac{1}$$

$$\int (x) = \frac{1}{|x-\alpha|^2}$$

$\int (x) = \frac{1}{|x-\alpha|^2}$

$\int (x) = -\frac{1}{|x-\alpha|^2}$

#

$$\frac{1}{|x|} \int |x|^{2} dx = \frac{1}{|x|^{2}} \int \frac{1$$

$$\frac{1}{12} = \frac{1}{12} = \frac{1}{12}$$

 $\frac{d^{2}}{d^{2}}$, or in our regularity ben | Միշս**ւստ** : 1) It a(a) to then lim f(x)= f(a) ~ (1)]? [(a)=0) promp | S(a) +0 | rim f(r) geowy. Ex. 5(x)= (x+2) lim 5(x)=? P(x)=x+2 : P(s)= 5+2=7 Q/1/2 = 2-5, :. Q(5)=5-5=6 20 L · Ling HX) doer not exist

(b)
$$\lim_{N\to 0} \int_{\mathbb{R}^{-1}} \int$$

$$\frac{1}{31} \quad \frac{1}{5(x)} = \begin{cases} \frac{3}{3} - \frac{1}{3} \\ \frac{1}{3} - \frac{1}{3} \end{cases} \qquad \frac{1}{3} = \begin{cases} \frac{1}{3} - \frac{1}{3} \\ \frac{1}{3} - \frac{1}{3} \end{cases} \qquad \frac{1}{3} = \begin{cases} \frac{1}{3} - \frac{1}{3} \\ \frac{1}{3} - \frac{1}{3} \end{cases} \qquad \frac{1}{3} = \begin{cases} \frac{1}{3} - \frac{1}{3} \\ \frac{1}{3} - \frac{1}{3} \end{cases} \qquad \frac{1}{3} = \begin{cases} \frac{1}{3} - \frac{1}{3} \\ \frac{1}{3} - \frac{1}{3} \end{cases} \qquad \frac{1}{3} = \begin{cases} \frac{1}{3} - \frac{1}{3} \\ \frac{1}{3} - \frac{1}{3} \end{cases} \qquad \frac{1}{3} = \begin{cases} \frac{1}{3} - \frac{1}{3} - \frac{1}{3} \\ \frac{1}{3} - \frac{1}{3} - \frac{1}{3} \end{cases} \qquad \frac{1}{3} = \begin{cases} \frac{1}{3} - \frac{1}{3} - \frac{1}{3} - \frac{1}{3} \\ \frac{1}{3} - \frac{1}{3} -$$