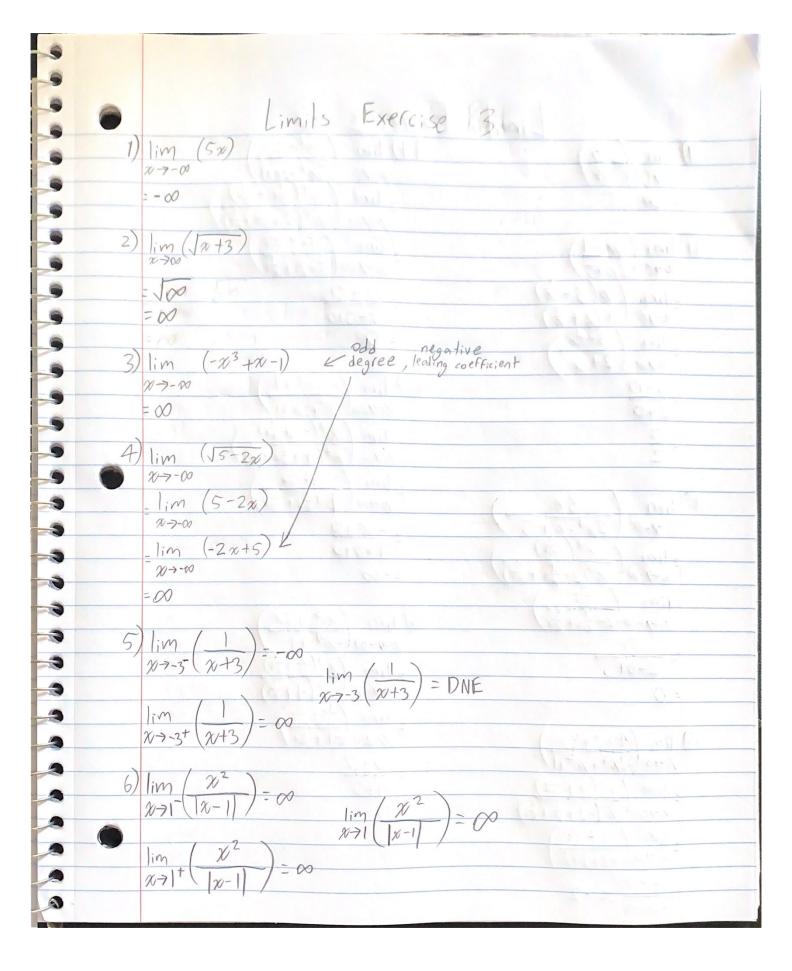
Limits Exercise 3 10) lim 2007 23) lim x→-00 lim Any number 2

Limits Exercise 3 y ->+00 x->+00 = 3+0+0 = 3 3 -3



	$ \frac{3}{(x^{2}-2)} $ $ \frac{3}{(x^{4}+2x+1)} $ $ \frac{x^{4}(\frac{1}{x^{2}}-\frac{2}{x^{3}})}{x^{4}(5+\frac{1}{x^{3}}+\frac{1}{x^{3}})} $ $ \frac{1}{x^{2}-\frac{7}{x^{4}}} $ $ \frac{1}{x^{2}-\frac{7}{x^{4}}} $ $ \frac{1}{x^{2}-\frac{7}{x^{4}}+\frac{1}{x^{4}}} $ $ \frac{1}{x^{3}+2x+1} $ $ \frac{1}{x^{3}+2x+1} $ $ \frac{1}{x^{3}+2x+1} $ $ \frac{1}{x^{2}+2x+1} $
Limits Exercise	(χ^2-2)
$\frac{7) \lim_{x \to 0^{+}} \left(\frac{3}{x}\right) \qquad \qquad 4 \lim_{x \to \infty}$	$\left(\frac{\chi^2-2}{5x^4+2x+1}\right)$
$\begin{array}{c c} x \to 0^+ & x \\ \hline = -\infty & -1 \text{ im} \end{array}$	$\left(\chi^4\left(\frac{1}{\chi^2}-\frac{2}{\chi^2}\right)\right)$
$\chi \rightarrow \infty$	$\chi^{+}(5+\frac{2}{2^{3}}+\frac{1}{2^{3}})$
$ 1\rangle \lim_{n \to \infty} (3\pi - 1)$	$ \begin{array}{c} \chi^{4}\left(5 + \frac{2}{x^{3}} + \frac{1}{x^{4}}\right) \\ \left(\frac{1}{x^{2}} - \frac{2}{x^{4}}\right) \\ 0 \left(5 - \frac{2}{x^{3}} + \frac{1}{x^{4}}\right) \end{array} $
$\chi \rightarrow 00 \left(2 \chi + 5\right)$ $\chi \rightarrow 0$	$\frac{1}{5-x^3+x^4}$
$-\lim_{N\to\infty} \left(\frac{n(3-\pi)}{x(2+\pi)} \right) = \frac{0-\pi}{5-6}$	40
- lim /3-2 \ = 0	
x7m 2+5	$(-3x^4+1)$
	$\frac{(-3x^4+1)}{x^3+2x+1}$
_ 3 _ lim	χ $\left(-3xt\frac{1}{2}\right)$
2 11700	$\chi^{3}(1+\frac{2}{\pi^{2}}+\frac{1}{2^{3}})$
- im	1-3x+x2 1+2/2+ 23
$\frac{12) \lim_{\chi \to \infty} \left(\frac{3\chi}{2\chi^4 - \chi + 3} \right) \qquad \frac{\chi \to \infty}{-\infty}$	10
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	10
$= -\infty$	•
$\frac{1}{m} \left(\frac{3}{\pi^3} \right)$	$\left(x^3 + 5x\right)$
$\begin{array}{c} \lambda - \lambda = \lambda =$	$(-x^4+)$
-2-0+0 -lim	$\left(\chi^4\left(\frac{1}{\kappa}+\frac{5}{\kappa^2}\right)\right)$
= 0 X-7-0	$\begin{array}{c} (\chi^{\uparrow}(-1+\frac{1}{\lambda^{2}}) \\ (\frac{1}{\lambda}+\frac{5}{\lambda^{2}}) \end{array}$
13) $\lim_{x \to 20} (4x^3 + 3x)$	
1 x-700 -2x3+x2+1/ 0+	
$= \lim_{x \to \infty} \left(\frac{\chi^3 \left(4 + \frac{3}{\chi^2} \right)}{2 \left(4 + \frac{3}{\chi^2} \right)} \right) = -1 + 0$	0
$= \frac{\chi \rightarrow \infty}{\chi^3 \left(-2 + \frac{1}{\chi} + \frac{1}{\chi^3}\right)} = 0$ $= \lim_{x \to \infty} \left(\frac{4 + \frac{3}{\chi^2}}{\chi^2} \right)$	
$-\frac{1}{\chi} \rightarrow \infty \left(\frac{2}{-2 + \frac{1}{\chi} + \frac{1}{\mu^3}} \right)$	
4+0 = -2	
-2+0+0	

Limits Exercise 3	
$\frac{1}{2}$ $\frac{1}{1}$ $\frac{1}$	
$\frac{x \rightarrow -\infty \left(7x^3 + 1\right)}{-\lim \left(x^3 \left(2x^3\right)\right)}$	
$\chi \rightarrow \infty \left(\chi^{3} \left(7 + \frac{1}{\lambda^{3}} \right) \right)$	
$=\lim_{\kappa \to \infty} \left(\frac{2\kappa^3}{7+\kappa}\right)$	
<u>1+0</u> =- \(\infty	
18) lim (2+ =)	
= -00+0	
= - 20	
19 lim / 1	
$\frac{19}{x-300}\left(\frac{1}{2^{ x-1 }-1}\right)$	
- 20-1	
= 0	
20) lim (1+3-x)	
$\chi \rightarrow \infty \left(\chi^3 + 1 \right)$	
$\frac{1+0}{-\infty+1}$	
=0	
22) lim (22)	
x->-co (xe")	
$=(-\infty)(\infty)$	
=-00	