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Eng 281 Computer Engineering

2) The model of a system has been developed by an engineer to be as given in Equation (2)
$f(x) = 5x - 21$

$f(x)$	$x \to 5^-$	$x \to 6^+$	$f(x)$
8.50	5.90	6.10	9.50
8.55	5.91	6.09	9.45
8.60	5.92	6.08	9.40
8.63	5.93	6.07	9.35
8.70	5.94	6.06	9.30
8.75	5.95	6.05	9.25
8.80	5.96	6.04	9.20
8.85	5.97	6.03	9.15
8.90	5.98	6.02	9.10
8.95	5.99	6.01	9.05
9.00	6.00	6.00	9.00

Since the limits are defined both on the L.H.S and R.H.S can be said the limit is real and thus exists

3) Find the limits of the model question given below:

$$\lim_{x \to 3^+} \frac{3-x}{|3-x|}$$

4) Evaluate the limit of the model given as lim
$\frac{x-3}{x \to 3 (x-3)}$

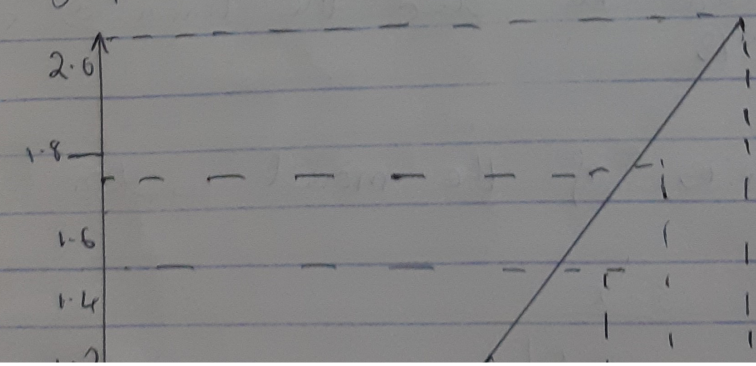
$\lim_{x-3} \frac{x-3}{|x-3|}$

$\lim_{x \to 3} = \frac{3-3}{|3-3|} = \frac{0}{0}$ the limit does not exist

5)

x	$fx.\sqrt{x4}$
4	0
5	1.0
6	1.4
7	1.7
8	2.0

The graph shows that $f(x).\sqrt{x4}$ of Interval (4, 8) is continous because there was no point where the function was undefined at the graph is a straight line graph.



1) Given
f(
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1) Given a function to be a in equation (1) $f(x)$, π find $\lim_{x \to 3} f(x)$

$$\lim_{x \to 3} \pi$$

$$\lim_{x \to 3} = \pi$$