

①  $\lim_{x \rightarrow \pi} f(x) = \pi$

$f(x)$	$a-3$	$a+3$	$f(x)$
8.50	5.90	6.10	9.50
8.55	5.91	6.09	9.45
8.60	5.92	6.08	9.40
8.65	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

The right hand limit and left hand limit are equal to here  $\lim_{x \rightarrow 6} (5x-2) = a$

⑤ find the limit of the model given as

$$\lim_{x \rightarrow 3} \frac{3-x}{13-x} = \lim_{x \rightarrow 3} \frac{3-(3+x)}{13-(3+x)} = \frac{-x}{x} = -1$$

④  $\lim_{x \rightarrow 3} \frac{x-3}{1x-3}$

$$= \frac{3-3}{3-3} = \frac{0}{0} \therefore \text{Confused limit does not exist}$$

⑤  $x$   $f(x) = \sqrt{x-4}$

4 0

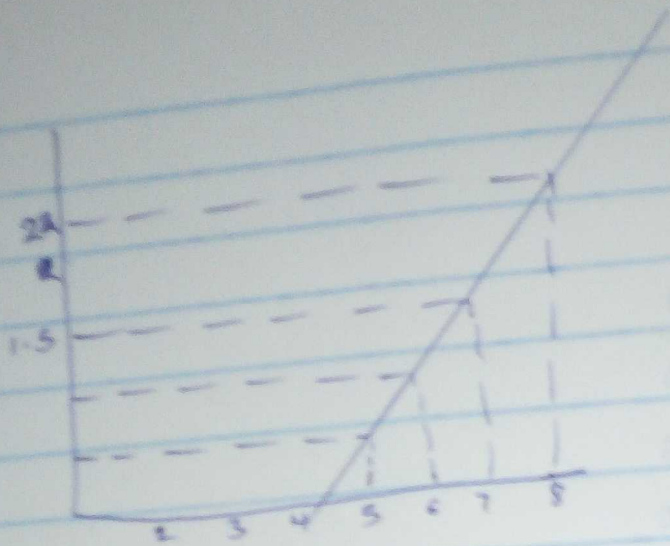
5 1.0

6 1.4

7 1.7

8 2.0





The graph shows that  $f(x) = \sqrt{x-4}$  at initial  $(4,0)$  is continuous, before there was no point where this function was undefined and the graph is a straight line graph