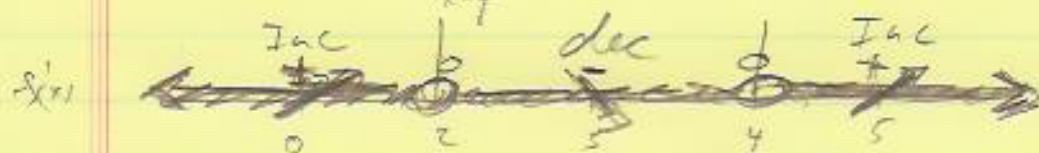


10. $f(x) = ?$ $f'(x) = \frac{x-2}{x-4} \Rightarrow x_c = 2, 4$



$$f'(0) = \frac{0-2}{0-4} = +1$$

$$f'(3) = \frac{3-2}{3-4} = \frac{1}{-1} = -1$$

$$f'(5) = \frac{5-2}{5-4} = \frac{3}{1} = +3$$

$f(x)$ is increasing for x in $(-\infty, 2)$ and x in $(4, +\infty)$
 $f(x)$ is decreasing for x in $(2, 4)$