

$$5. f(x) = (x-1)^{\frac{1}{5}}$$

$$\begin{aligned} \textcircled{1} f'(x) &= \frac{1}{5}(x-1)^{\frac{1}{5}-1} \cdot \frac{d}{dx}(x-1) \\ &= \frac{1}{5}(x-1)^{-\frac{4}{5}} \\ &= \frac{1}{5(x-1)^{\frac{4}{5}}} \end{aligned}$$

$$\begin{aligned} \textcircled{2} 5(x-1)^{\frac{4}{5}} &= 0 \\ x-1 &= 0 \\ x &= 1 \end{aligned}$$

	$x=0$	$x=1$	$x=2$
TEST CASES			
PLUG INTO $f'(x)$	$\frac{1}{5(x-1)^{\frac{4}{5}}}$		$\frac{1}{5(x-1)^{\frac{4}{5}}}$
	$\frac{1}{5(0-1)^{\frac{4}{5}}}$		$\frac{1}{5(2-1)^{\frac{4}{5}}}$
	/		/

NO EXTREMA