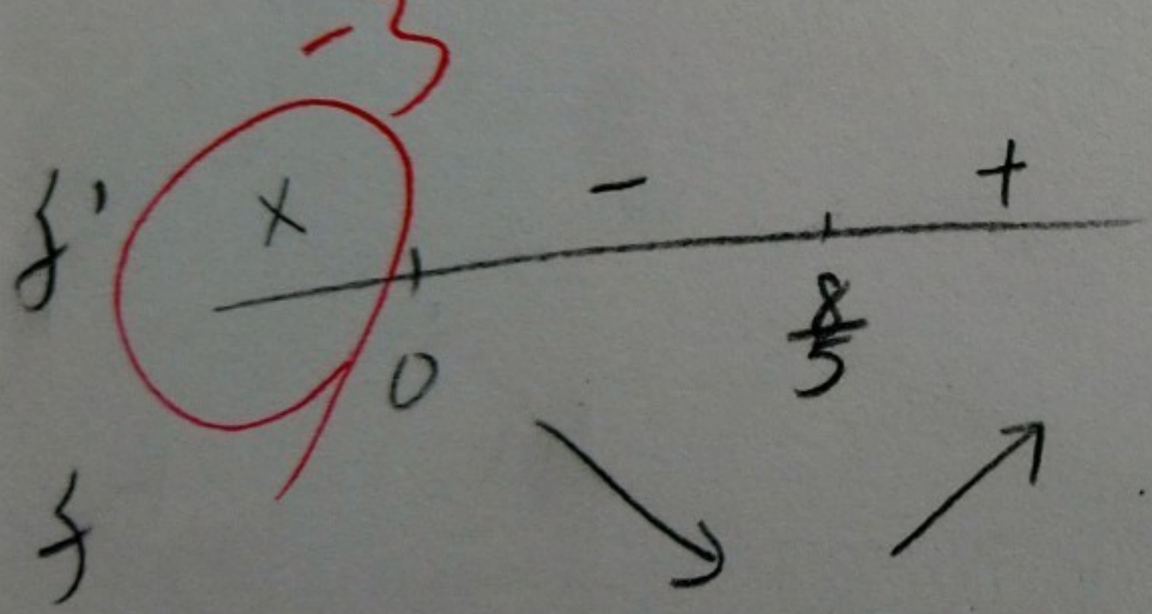
By Rolle's Theorem, [illegible] s.t. $f'(\quad)=0$

3. $f(x)= x^{\frac{2}{3}}(x-4) = x^{\frac{5}{3}} - 4x^{\frac{2}{3}}$

$f'(x) = \frac{5}{3}x^{\frac{2}{3}} - \frac{8}{3}x^{\frac{-1}{3}} = 0 \qquad x=0 \text{ or } \frac{8}{5}$



$x=\frac{8}{5} \Rightarrow$ local minimum

$x=0 \Rightarrow$ local maximum