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

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

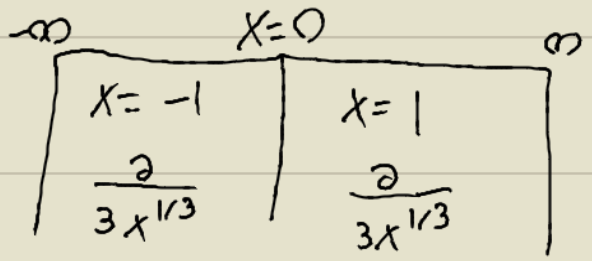
$= \frac{2}{3}x^{-\frac{1}{3}}$

$\frac{2}{3x^{1/3}}$

② $3x^{1/3} = 0$

$x = 0$

③



$\frac{2}{3\sqrt[3]{x}}$

REL MIN

DEC $(-\infty, 0)$

INC $(0, \infty)$

④ REL MIN: $x = 0$

$y = x^{2/3} - 2$

$y = 0^{2/3} - 2$

$y = -2$

REL MIN $(0, -2)$