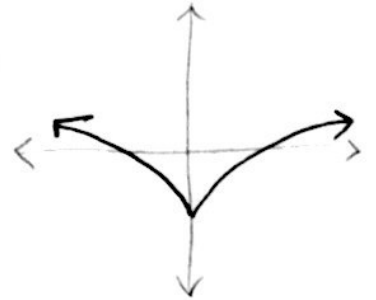
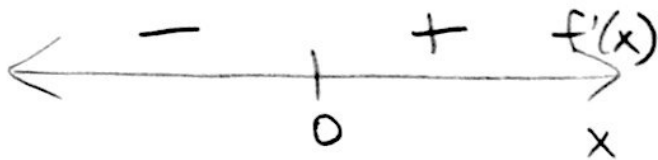


d)  $f(x) = x^{2/3} - 4$

WU  $f'(x) = \frac{2}{3}x^{-1/3} = \frac{2}{3\sqrt[3]{x}} = 0$  or undefined

critical value @  $x=0$



D:  $(-\infty, 0)$

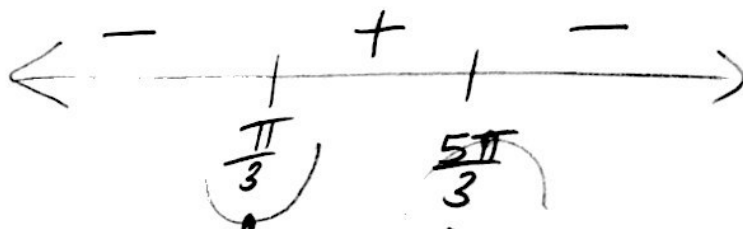
I:  $(0, \infty)$

min:  $(0, -4)$

e)  $f(x) = \frac{1}{2}x - \sin x$  on  $(0, 2\pi)$

WU  $f'(x) = \frac{1}{2} - \cos x = 0$   
 $\cos x = \frac{1}{2}$

critical values:  $\frac{\pi}{3}, \frac{5\pi}{3}$



I:  $(\frac{\pi}{3}, \frac{5\pi}{3})$

D:  $(0, \frac{\pi}{3}) \cup (\frac{5\pi}{3}, 2\pi)$

min:  $(\frac{\pi}{3}, \frac{\pi}{6} - \frac{\sqrt{3}}{2})$

max:  $(\frac{5\pi}{3}, \frac{5\pi}{6} + \frac{\sqrt{3}}{2})$