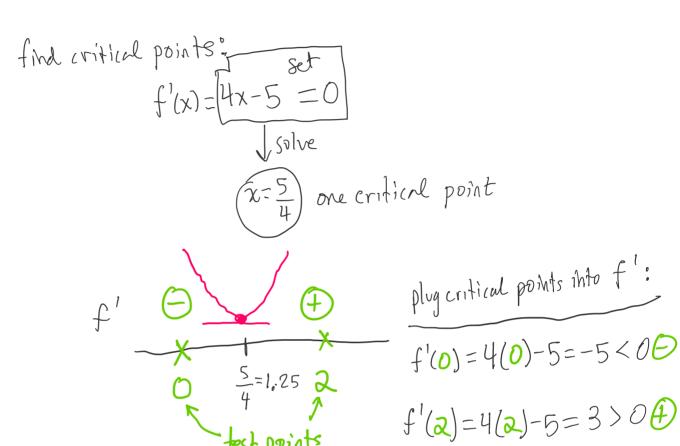
MTH 140 - Quiz 8

Sunday, March 31, 2024

4:26 PM

$$f(x) = 2x^2 - 5x + 2$$



=) Value of fat critical point:

$$f\left(\frac{S}{4}\right) = 2\left(\frac{S}{4}\right)^{2} - 5\left(\frac{S}{4}\right) + 2$$

$$= \frac{50}{16} - \frac{2S}{4} + \frac{8}{4}$$

$$= \frac{2S}{8} - \frac{S0}{8} + \frac{16}{8} = -\frac{9}{8}$$

$$= -\frac{2S}{8} + \frac{16}{8} = -\frac{9}{8}$$

=> Local minimum of -9 occurs at x= 54,

