

$$\lim_{h \rightarrow 0} \frac{f(x+h) - f(x)}{h}$$

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

$$f(3)$$

$$\cancel{ex} \frac{2}{9} \rightarrow \frac{1}{9}(2)$$

$$\lim_{h \rightarrow 0} \frac{\frac{1}{2(x+h)-2} - \frac{1}{2x-2}}{h}$$

$$\cancel{ex} \frac{1}{3} - \frac{1}{7}$$

$$\lim_{h \rightarrow 0} \frac{1}{h} \left(\frac{1}{2x+2h-2} - \frac{1}{2x-2} \right)$$

$$\frac{1 \cdot 7 - 1 \cdot 3}{21}$$

$$\lim_{h \rightarrow 0} \frac{1}{h} \left(\frac{2x-2 - (2x+2h-2)}{(2x+2h-2)(2x-2)} \right)$$

$$\lim_{h \rightarrow 0} \frac{1}{h} \left(\frac{\cancel{2x-2} - \cancel{2x-2} - 2h + 2}{(2x+2h-2)(2x-2)} \right)$$

$$\lim_{h \rightarrow 0} \frac{1}{h} \left(\frac{-2h}{(2x+2h-2)(2x-2)} \right)$$

$$\lim_{h \rightarrow 0} \frac{-2}{(2x+2h-2)(2x-2)} =$$

$$\frac{-2}{(2x-2)^2}$$

$$\frac{3}{5x^3} \rightarrow y = \frac{3}{5} x^{-3}$$

$$y' = \frac{3}{5} \cdot -3 x^{-4}$$

$$\frac{-9}{5} x^{-4} \rightarrow \frac{-9}{5x^4}$$

finish #1-15
for Friday



Mr. M



that one
time he
smiled

YAY! HAPPY WEDNESDAY!!

am I RIGHT?!! Yours truly!)

Rafiq \neq love RAFIQ \approx BA