quiz 2
math1117-02
u new haven
Wed 11 Sept

name: Solution

1 (10 points). Graph the function

$$f(x) = \begin{cases} \dfrac{x^2 - x}{x - 1}, & x \neq 1; \\ 2, & x = 1. \end{cases}$$

$$f(x) = \begin{cases} \dfrac{x^2 - x}{x-1} = \dfrac{x(x-1)}{x-1} = x, & x \neq 1 \\ 2 = 2 = 2, & x = 1 \end{cases}$$

So everywhere except $x=1$, $f(x) = x$

; at $x=1$, $f(x) = 2$.