

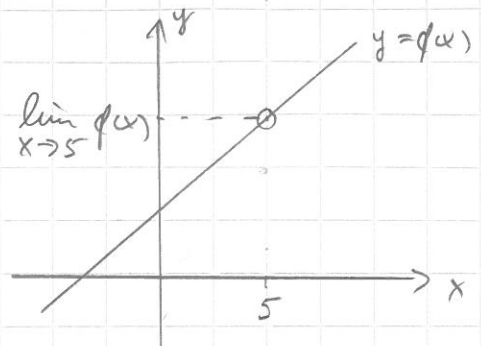
3.12

$$f(x) = \frac{2x^2 - 50}{3x - 15}, \quad x \neq 5$$

$$\stackrel{\left(\frac{0}{0}\right)}{=} \frac{2(x^2 - 25)}{3(x-5)} = \frac{2(x-5)(x+5)}{3(x-5)}$$

$$= \frac{2(x+5)}{3} \xrightarrow{x \rightarrow 5} \frac{2(5+5)}{3} = \frac{20}{3}$$

$$f \text{ j\u00e4tsume kohdessa } 5 \quad (\Rightarrow) \quad \underline{f(5) = \frac{20}{3}}$$



Siis

$$f(x) = \begin{cases} \frac{2x^2 - 50}{3x - 15}, & x \neq 5 \\ \frac{20}{3}, & x = 5 \end{cases}$$