

MATHEMATICS
Monday November 9 2015
Weekly test VI

Ex.1 Study continuity of the following function and determine its vertical and horizontal asymptotes

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

Ex.2 Determine if the following function is continuous

$$y = f(x) = \begin{cases} \frac{x-4}{\sqrt{x}-2} & \text{if } 0 \leq x < 4 \\ 4e^{x-4} & \text{if } x \geq 4 \end{cases}$$