

## Weekly test IV

Monday, 20th October 2014

**Ex. 1** Study domain, sign and axis-intercepts of the following function:

$$f(x) = \frac{\ln(x^2 + x + 1)}{\sqrt{x + 4}}$$

**Ex. 2** Study domain, sign and axis-intercepts of the following function:

$$g(x) = \frac{\sqrt{9 - x^2}}{(x + 1)e^{x^2+x}}$$