## E19.4 [INC] Prerequisites: [IKQ].

Exercises

Solution 1. [1ND]

Show that  $f(x) = \frac{1}{1+x^2}$  is analytic on all  $\mathbb{R}$ , but the radius of con-

Study similarly  $f(x) = \sqrt{x^2 + 1}$  or  $f(x) = e^{1/(x^2+1)}$ .

- vergence of the Taylor seried centered in  $x_0$  is  $\sqrt{1+x_0^2}$ .