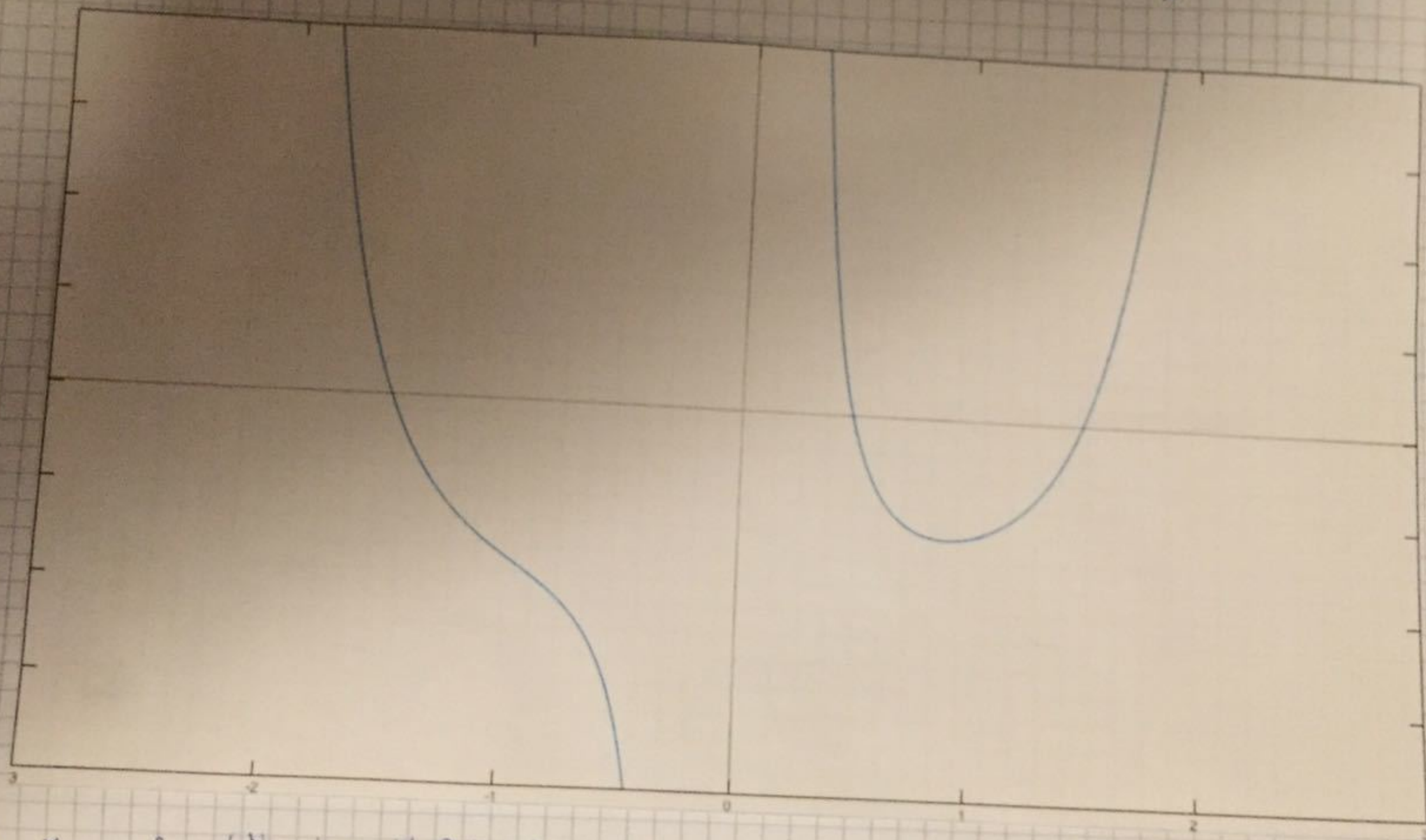


$$f(x) = e^{x^2} + \frac{1}{x^3} - 10$$

$$f'(x) = 2x e^{x^2} - \frac{3}{x^4}$$



Startwert $x_0 = 2$ (Newton - Verfahren)

1-te : $x_1 = 2 - \frac{f(2)}{f'(2)} = 1.7960$

3-te : $x_3 = x_2 - \frac{f(x_2)}{f'(x_2)} = 1.5308$

2-te : $x_2 = x_1 - \frac{f(x_1)}{f'(x_1)} = 1.6251$

4-te : $x_4 = x_3 - \frac{f(x_3)}{f'(x_3)} = 1.5086$