

Kolokwium I

2022-11-29

1. $y' = \frac{1+e^y}{e^y} \cdot \frac{2x}{1+x^2}, y(1) = 0$

2. $y' = \frac{y^2-x^2}{xy}, y(1) = 2$

3. $y' - y = e^x - \sin x$

4. $y' - \frac{1}{3}y \sin x = -y^4 \sin x$

5. $y = xy' + \frac{1}{2(y')^2}$

6. $1 - x^2y + x^2(y-x)y' = 0$