Równania Różniczkowe i Różnicowe Zadania na zajęcia, lab 4

1 Lagrange

1.
$$y = 3xy' + e^{-\sqrt{y'}}$$

2.
$$y = \left(y' + \frac{1}{\cos y'}\right)x + \sin^3 y'$$

3.
$$y = \frac{y' \ln y' - y' + (y')^2}{\ln y' - 1} x + (y')^{1/y'}$$

4.
$$y = (y')^2 x + \frac{1}{y'}$$

5.
$$y = x(y' - tg(y')) + y'$$

6.
$$y = (y')^2 (e^{y'} - x)$$

7.
$$y = \frac{2(y')^2 - 1}{2y'}x + (y')^{-2}e^{(y')^2}$$

2 Clairaut

1.
$$y = xy' + \frac{1}{2y'}$$

2.
$$y = xy' - (y')^3$$

$$3. \ y = xy' - \sin y'$$