

3916. $y - xy' = b(1 + x^2y')$; $y(1) = 1$

rednrodne

3937 $y' = \frac{2xy}{x^2 - y^2}$; nozw. $x^2 + y^2 = Cy$

3939. $xy' - y = \sqrt{x^2 + y^2}$; nozw. $x^2 = c^2 - 2Cy$

3940. $x^2 + x^2y' = xyy'$; nozw. $e^{\frac{y}{x}} = Cy$

3941. $y' = e^{\frac{y}{x}} + \frac{y}{x}$; nozw. $\ln|Cx| = -e^{-\frac{y}{x}}$

3942 $xy' = y \ln \frac{y}{x}$; nozw $y = x e^{1+Cx}$

3943. $(3y^2 + 3xy + x^2)dx = (x^2 + 2xy)dy$; nozw. $(x+y)^2 = Cx^3 e^{-\frac{x}{x+y}}$

2 warunkiem po'z'kowny

3945. $(xy' - y) \arctg \frac{y}{x} = x$; $y(1) = 0$; nozw. $\sqrt{x^2 + y^2} = e^{\frac{1}{x} \arctg \frac{y}{x}}$

3946. $(y^2 - 3x^2)dy + 2xydx = 0$; $y(0) = 1$; nozw. $y^3 = y^2 - x^2$

Linowe

3955. $y' + 2xy = x e^{-x^2}$; nozw. $y = e^{-x^2} (C + \frac{x^2}{2})$

3963. $x(y' - y) = (1 + x^2) \cdot e^x$; nozw $y = e^x (\ln|x| + \frac{x^2}{2}) + C e^x$

3966. $xy' + y - e^x = 0$; nozw. $y = \frac{e^x + ab - ce^e}{x}$
w-k. 1109. $y(a) = b$