

Rozwiązać równania różniczkowe

$$\begin{aligned}y' - \frac{y}{x} &= -\ln x, \\y'' - 3y' + 2y &= x^3.\end{aligned}$$

$$\begin{aligned}(1+x^2)y' &= 2xy, \\y'' - 4y &= 10e^{3x}.\end{aligned}$$

$$\begin{aligned}(2xy^3 + 8x)dx + (3x^2y^2 + 5)dy &= 0, \\y'' + y' - 6y &= 2\sin x.\end{aligned}$$

$$\begin{aligned}(1+x^2)y' + y &= \arctan x, \\y'' + y' &= \cos x.\end{aligned}$$

$$\begin{aligned}y' &= \frac{y}{x} - x, \\y'' - 3y' + 2y &= x.\end{aligned}$$

$$\begin{aligned}y' &= \frac{y}{x} - x, \\y'' - 3y' + 2y &= x.\end{aligned}$$

$$\begin{aligned}y'\cos x - y\sin x &= 1, \\y'' + 4y &= x e^{2x}.\end{aligned}$$

$$y'\cos x - y\sin x = 1.$$

$$y'' + y = \cos 2x - \sin 2x.$$