

Pop Quiz

Ordinary Differential Equations

UCR Math-046-E01, Summer 2018

1. Solve the following differential equation for $x > 0$ and with the initial condition that $y(e) = e^{e+2}$.

$$xy' = y \ln\left(\frac{y}{x}\right)$$

2. Solve the following differential equation:

$$x^x y' + x^x \ln(x) y = 1$$