

- $y' + y^2 \sin x = 2 \frac{\sin x}{\cos^2 x}$, $y_1 = \frac{1}{\cos x}$
- $y' + 7x^A y^3 + 2xy = 0$, $y(0) = 2$
- $(xchy + shx)y' + ychx + shy =$
- $(2e^{\frac{x}{2}} - x)y' + 2x + y = 0$, $y(2) = 0$
- $y' \cos x + y \sin x + y^3 = 0$
- $x(1 + y'^2) = 1$
- $xy' + (\sin y - 3x^2 \cos y) \cos y = 0$
- $yy'' + 1 + \cos x + y'^2 = 0$ $y(0) = 1$, $y'(0) = 0$
- $xyy' - y^2 + ax^3 \cos x = 0$
- $(y \ln x - 1)y = xy'$
- 1. $(y' - x)^2 = y' + x$, $y(0) = 1$
2. $xy' + y = 2 \ln|x|$, $y(1) = 0$
- 1. $xyy' = (y^2 + x^3)$
2. $y(1 - \ln y)y'' + (1 + \ln y)y'^2 = 0$, $y(2) = 1$, $y'(2) = 0$
 $(y' - x)^2 = y + x$