

1 階線形型・ベルヌーイ型の微分方程式

No 9	番号	名前
------	----	----

(1) $y' + \frac{y}{x} = 1$

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

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

(4) $xy' + y = x^2y^3$

(5) $3y' + \frac{3y}{x} = 2x^4y^4$

(6) $xy' = x - 1, \quad y(1) = 1$

(7) $2xy - (x^2 - y^2)y' = 0, \quad y(0) = 1$

(8) $y' = \frac{y^2 - x^2}{2xy}, \quad y(0) = 2$

(9) $y' = \frac{2y}{x} = 2x^3 + x, \quad y(1) = 2$

(10) $y' + xy = \frac{x}{y}, \quad y(0) = 0$