## ODE Cheat Sheet

## First Order Differential Equations

## Separable

$$y'(x) = f(x)g(y)$$
  
$$\int \frac{dy}{d(y)} = \int f(x)dx$$

#### Linear

$$y'(x) + p(x)y(x) = g(x)$$

$$u(x) = e^{\int p(x)dx}$$

#### Exact:

$$M(x, y)dx + N(x, y)dy = dV(x, y) = 0$$
  
Exactness condition:  $M_y = N_x$ 

#### Non-Exact

$$\mu(x) = \int \frac{M_y - N_x}{N} dx$$

$$\mu(y) = \int \frac{N_x - M_y}{M} dy$$

#### Change of variables

$$y' = f\left(\frac{x}{y}\right)$$
 let  $u = y/x$   
 $y' + p(x)y = g(x)y'''$  let  $u = y + c$   
 $y' = f(\alpha x + by + c)$  let  $u = ax + by + c$ 

#### Existence and Uniqueness theorem for First Order Differential equations

Let the functions f and  $\partial f/\partial y$  be continuous in some rectangle  $a \le t \le \beta$ ,  $y \le y \le \delta$  containing the point  $(t_0, y_0)$ . Then, in some interval  $t_0 = h \le t \le t_0 = h$  contained in  $a \le t \le \beta$ , there is a unique solution  $y = \varphi(t)$  of the initial value problem

$$y' = f(t, y), \quad y(t_0) = y_0$$

## Second Order Homogeneous Linear Differential Equations

## General linear Homogeneous Second Order

y'' + p(x)y' + q(x)y = 0If  $y_1$  and  $y_2$  are solutions to the DE and are linearly independent,  $y_1$  and  $y_2$  form a fundamental set of solutions. The general solution is:  $y = c_1y_1 + c_2y_2$ .

#### Wronskian.

$$W[y_1,y_2] = \begin{bmatrix} y_1 & y_2 \\ y_1' & y_2' \end{bmatrix}$$

If  $W \neq 0$ ,  $y_1$  and  $y_2$  are linearly independent.

## Abel's Theorem

$$W[y_1, y_2](x) = c \exp\left(-\int p(x)dx\right)$$

# Linear Homogeneous Constant Coefficients

$$ay'' + by' + cy = 0$$
  
Characteristic equation:  $ar^2 + br + c = 0$   
Distinct and real roots:  $y = c_1e^{r_1x} + c_2e^{r_2x}$   
Repeated roots:  $y = (c_1 + c_2x)e^{rx}$   
Complex roots:  $y = (c_1 \cos \beta x + c_2 \sin \beta x)e^{ax}$ 

#### Cauchy-Euler Equations

$$ax^2y'' + bxy' + cy = 0$$
  
Characteristic equation:  $ar(r-1) + br + c = 0$   
Distinct and real roots:  $y = c_1x^{r_1} + c_2x^{r_2}$   
Repeated roots:  $y = (c_1 + c_2 \ln x)x^r$   
Complex roots:  $y = (c_1 \cos(\beta \ln x) + c_2 \sin(\beta \ln x))x^n$ 

#### Second Order Non-Homogeneous Linear Differential Equations

#### General linear Homogeneous Second Order

$$y'' + p(x)y' + q(x)y = g(x)$$
  
Suppose  $y_{ij}$  is the general solution to the homogenous  
differential equation and  $y_{ij}$  is a particular solution to the  
differential equation. The general solution is:  $y = y_{ij} + y_{ji}$ 

#### Method of Undetermined Coefficients

$$S(x) \qquad y_{N}(x)$$

$$P_{N}(x) \qquad x^{n} \sum_{n=0}^{N} A_{n} x^{n}$$

$$P_{N}(x) e^{\alpha x} \qquad x^{n} e^{\alpha x} \sum_{n=0}^{N} A_{n} x^{n}$$

$$P_{N}(x) e^{\alpha x} \left\{ \begin{array}{l} \sin \beta x \\ \cos \beta x \end{array} \right. \qquad x^{n} e^{\alpha x} \left( \sin \beta x \sum_{n=0}^{N} A_{n} x^{n} + \cos \beta x \sum_{n=0}^{N} B_{n} x^{n} \right)$$

#### Variation of Parameters

$$y_p = u_1 y_1 + u_2 y_2$$
 were  $u_1' y_1 + u_2' y_2 = 0$   
 $u_2' y_1' + u_2' y_2' = g$ 

#### Reduction of order

If  $y_i$  is a solution to the homogeneous differential equation, the general solution can be found by substituting  $y = uy_i$  and solving the reduced differential equation.

## **Series Solutions**

#### **Ordinary Points**

If p(x) and q(x) are analytic at  $x_0$ , one can find a solution a power series solution about  $x_0$  with  $R \ge \min\{R_m R_n\}$ .

$$y = \sum_{n=0}^{\infty} a_n (x - x_0)^n$$

#### Singular Points

If p(x) and q(x) are not analytic at  $x_0$ ,  $x_0$  is a singular point. The point  $x_0$  is a regular singular point if  $\lim_{x\to x_0} (x-x_0)p(x) = p_0$   $\lim_{x\to x_0} (x-x_0)^2q(x) = q_0$  where  $p_0$  and  $q_0$  are finite numbers.

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