Mon Tue Wed Thu Fri Sat Sun Bassel Equation	Date:
2x(1-x)y''+(1-x)y'+3y=0	
$P_{o}(x) = 2x(1-x) , P_{i}(x) = (1-x) , P_{2}$	
$P_0(x) = 0 \implies 2x(1-x) = 0 \implies x = 0$	
$P_0(x) = 2 \times (1-x) \Rightarrow P_0(0) = 2(0)(1-0) \Rightarrow$	
Let [Frobenius Series Method)	
$y = \sum_{n=0}^{\infty} a_n x^{m+n}$	∑ n=0
- n=0	n=0 In will not be
$\frac{dy}{dx} = y' = \sum_{n=0}^{\infty} (m+n)\alpha_n x^{m+n-1}$	affected by of "m"
-2	
$\frac{d\overline{y}}{dx^2} = y'' = \sum_{n=0}^{\infty} (m+n)(m+n-1)\alpha_n x^{m+n-2}$	
Put values in Equation	
2x(1-x)y''+(1-x)y'+3y=0	
$(2x-2x^2)y''+(1-x)y'+3y=0$	
$(2x-2x^{2}) \frac{\mathcal{E}}{\mathcal{E}}(m+n)(m+n-1)\alpha_{n}x^{m+n-2} + (1-x) \frac{\mathcal{E}}{\mathcal{E}}(m+n)\alpha_{n}x^{m+n-1} + 3 \frac{\mathcal{E}}{\mathcal{E}}\alpha_{n}x^{m+n} = 0$	
n=0 n=0	
$2\sum_{n=0}^{\infty}(m+n)(m+n-1)a_{n}x^{m+n-1}-2\sum_{n=0}^{\infty}(m+n)(m+n-1)a_{n}x^{m+n}+\sum_{n=0}^{\infty}(m+n)a_{n}x^{m+n-1}-\sum_{n=0}^{\infty}(m+n)a_{n}x^{m+n}+3\sum_{n=0}^{\infty}a_{n}x^{m+n}=0$	
$2\sum_{n=0}^{\infty} (m+n+1)(m+n)a_{n+1} \times^{m+n} - 2\sum_{n=0}^{\infty} (m+n)(m+n-1)a_n \times^{m+n} + \sum_{n=0}^{\infty} (m+n+1)a_{n+1} \times a_{n+1} \times a_{$	$\sum_{n=0}^{\infty} (m+n) a_n x^{m+n} + 3 \sum_{n=0}^{\infty} a_n x^{m+n} = 0$
Comparing Coefficients	
$\frac{2(m+n+1)(m+n)a_{n+1}-2(m+n)(m+n-1)a_n+(m+n+1)a_{n+1}-(m+n)a_n+3a_n=0}{2(m+n+1)(m+n)a_{n+1}-2(m+n)a_n+3a_n=0}$	
	$)a_n + (m+n)a_n - 3a_n$
$\frac{a_{n+1} = [2(m+n)(m+n-1) + (m+n) - 3]a_n}{[2(m+n+1)(m+n) + (m+n+1)]}$	