

$$17. y'' - xy' + 3y = 0 \Rightarrow \sum_{n=2}^{\infty} n(n-1)c_n x^{n-2} - x \sum_{n=1}^{\infty} n c_n x^{n-1} + 3 \sum_{n=0}^{\infty} c_n x^n = 0$$

$$\Rightarrow \sum_{n=2}^{\infty} n(n-1)c_n x^{n-2} - \sum_{n=1}^{\infty} n c_n x^n + \sum_{n=0}^{\infty} 3c_n x^n = 0$$

power of x	coefficient equation	
x^0	$2(1)c_2 + 3c_0 = 0$	$\Rightarrow c_2 = -\frac{3}{2}c_0$
x^1	$3(2)c_3 - (1)c_1 + 3c_1 = 0$	$\Rightarrow c_3 = -\frac{1}{3}c_1$
x^2	$4(3)c_4 - (2)c_2 + 3c_2 = 0$	$\Rightarrow c_4 = -\frac{1}{12}c_2 = \frac{1}{8}c_0$
x^3	$5(4)c_5 - (3)c_3 + 3c_3 = 0$	$\Rightarrow c_5 = 0$
x^4	$6(5)c_6 - (4)c_4 + 3c_4 = 0$	$\Rightarrow c_6 = \frac{1}{30}c_4 = \frac{1}{240}c_0$
$\vdots$	$\vdots$	$\vdots$
x^n	$(n+2)(n+1)c_{n+2} - n c_n + 3c_n = 0$	$\Rightarrow c_{n+2} = \frac{n-3}{(n+2)(n+1)}c_n$

$$y = c_0 + c_1 x - \frac{3}{2}c_0 x^2 - \frac{1}{3}c_1 x^3 + \frac{1}{8}c_0 x^4 + \frac{1}{240}c_0 x^6 - \dots = c_0 \left(1 - \frac{3}{2}x^2 + \frac{1}{8}x^4 + \frac{1}{240}x^6 + \dots \right) + c_1 \left(x - \frac{1}{3}x^3 \right)$$

$$18. x^2 y'' - 4xy' + 6y = 0 \Rightarrow x^2 \sum_{n=2}^{\infty} n(n-1)c_n x^{n-2} - 4x \sum_{n=1}^{\infty} n c_n x^{n-1} + 6 \sum_{n=0}^{\infty} c_n x^n = 0$$

$$\Rightarrow \sum_{n=2}^{\infty} n(n-1)c_n x^n - \sum_{n=1}^{\infty} 4n c_n x^n + \sum_{n=0}^{\infty} 6c_n x^n = 0$$

power of x	coefficient equation	
x^0	$6c_0 = 0$	$\Rightarrow c_0 = 0$
x^1	$-4(1)c_1 + 6c_1 = 0$	$\Rightarrow c_1 = 0$
x^2	$2(1)c_2 - 4(2)c_2 + 6c_2 = 0$	$\Rightarrow 0 = 0$
x^3	$3(2)c_3 - 4(3)c_3 + 6c_3 = 0$	$\Rightarrow 0 = 0$
x^4	$4(3)c_4 - 4(4)c_4 + 6c_4 = 0$	$\Rightarrow c_4 = 0$
$\vdots$	$\vdots$	$\vdots$
x^n	$n(n-1)c_n - 4n c_n + 6c_n = 0$	$\Rightarrow c_n = 0$

$$y = c_2 x^2 + c_3 x^3$$

Thomas Calculus 12th Edition Solutions Manual

**Joel Hass, Christopher Heil, Maurice
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