

34. Substitution of $y = \sum c_n x^n$ in the Airy equation leads upon shift of index and collection of terms to

$$2c_2 + \sum_{n=1}^{\infty} [(n+1)(n+2)c_{n+2} - c_{n-1}] x^n = 0.$$

The identity principle then gives $c_2 = 0$ and the recurrence formula

$$c_{n+3} = \frac{c_n}{(n+2)(n+3)}.$$

Because of the "3-step" in indices, it follows that $c_2 = c_5 = c_8 = c_{11} = \dots = 0$. Starting with $c_0 = 1$, we calculate

$$c_3 = \frac{1}{2 \cdot 3} = \frac{1}{3!}, \quad c_6 = \frac{1}{3! \cdot 5 \cdot 6} = \frac{1 \cdot 4}{6!}, \quad c_9 = \frac{1 \cdot 4 \cdot 7}{6! \cdot 8 \cdot 9} = \frac{1 \cdot 4 \cdot 7}{9!}, \dots$$

Starting with $c_1 = 1$, we calculate

$$c_4 = \frac{1}{3 \cdot 4} = \frac{2}{4!}, \quad c_7 = \frac{2}{4! \cdot 6 \cdot 7} = \frac{2 \cdot 5}{7!}, \quad c_{10} = \frac{2 \cdot 5}{7! \cdot 9 \cdot 10} = \frac{2 \cdot 5 \cdot 8}{10!}, \dots$$

Evidently we are building up the coefficients

$$c_{3k} = \frac{1 \cdot 4 \cdot \dots \cdot (3k-2)}{(3k)!} \quad \text{and} \quad c_{3k+1} = \frac{2 \cdot 5 \cdot \dots \cdot (3k-1)}{(3k+1)!}$$

that appear in the desired series for $y_1(x)$ and $y_2(x)$. Finally, the Mathematica commands

```
A[1] = 1/6 ; A[k_] := A[k-1]/(3 k (3 k-1))
B[1] = 1/12 ; B[k_] := B[k-1]/(3 k (3 k+1))
n = 40 ;
y1 = 1 + Sum[A[k] x^(3 k), {k, 1, n}]
y2 = x + Sum[B[k] x^(3 k-1), {k, 1, n}]
yA = y1/(2^(1/3) Gamma[2/3]) - y2/(3^(1/3) Gamma[1/3]) ;
yB = y1/(3^(1/6) Gamma[1/3]) + y2/(3^(1/6) Gamma[2/3]) ;
Plot[{yA, yB}, {x, -13.5, 3}, PlotRange -> {-0.75, 1.5}] ;
```

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**William E. Boyce, Richard C.
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