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Airy Functions and  
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The Airy functions  $Ai(x)$  and  $Bi(x)$  are linearly independent solutions of the differential equation  $d^2 y/dx^2 = xy$ . For real  $x$ ,  $Ai(x)$  can be written as  $1/\sqrt{\pi}$  times the integral from zero

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with respect to  $t$ . It is  
convenient to define  
two more functions  
 $G_i(x)$  and  $H_i(x)$ , the  
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of an effective and  
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special functions, and  
in particular Airy  
functions, is rather  
common in physics.

The reason may be  
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and even in the  
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phenomenon in terms  
of an effective and  
comprehensive  
analytical form for  
the whole scientific  
community.

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The Airy function  
 $Ai(x)$  oscillates on the  
real negative axis,  
where  $2 \sqrt[4]{21} x^{3/4} \sim x$

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$S_1(x)$  (1-3) And it has a discrete set of zeroes, while It decays exponential fast on the real positive axis, where  $2 \sqrt{x} S_1(x) \sim 2x S_1(x)$  (1-4) The Airy function has many application in physics (optics, quantum mechanics, electromagnetic, radiative transfer) [5].

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Applications of the first kind)  $Ai(x)$  is a special function named after the British astronomer George Biddell Airy (1801–1892). The function  $Ai(x)$  and the related function  $Bi(x)$ , are linearly independent solutions to the differential equation  $y''' - xy = 0$ , known as the Airy equation

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equation. This is the

simplest second-order

linear ...

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applied in many  
branches of both  
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physics. The function  
 $Ai(x)$  first appears

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presents some  
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