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### Differential equation - Wikipedia

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The first solution with  $x > 0$  of the equation  $\sin 2x = 1/4$  places  $2x$  in the interval  $(\pi/2, 3\pi/2)$ , so to invert this equation using the arcsine we need to apply the identity  $\sin(\pi - x) = \sin x$ , and rewrite  $\sin 2x = 1/4$  as  $\sin(\pi - 2x) = 1/4$ . The solution of this equation may then be found by taking the arcsine, and is.

### Differential Equations - Department of Mathematics, HKUST

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### Applied Partial Differential Equations with Fourier Series ...

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