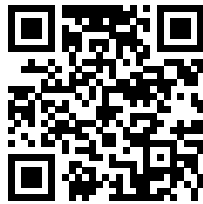




# **SoulShift - Educational Q&A Platform**

## **General Questions**

Practice Questions



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**Q1. Which of the following functions is not differentiable at  $x = 0$ ?  $f(x) = x^2 \sin(1/x)$  for  $x \neq 0$  and  $f(0) = 0$ .**

- A.  $f(x)$
- B.  $g(x) =$
- C.  $x$
- D.

*Solution: The function  $f(x)$  is not differentiable at  $x = 0$  due to the oscillatory nature of  $\sin(1/x)$  as  $x$  approaches 0.*



