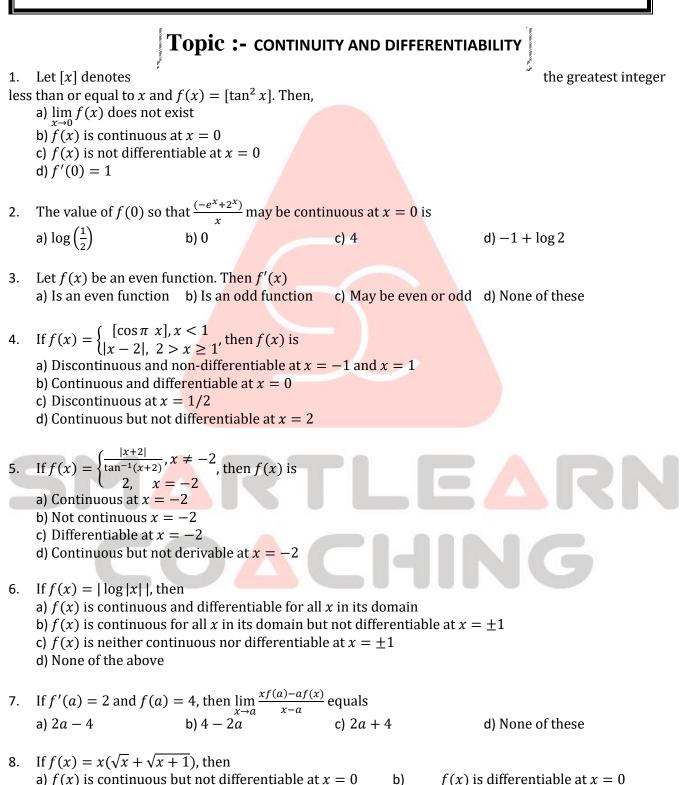




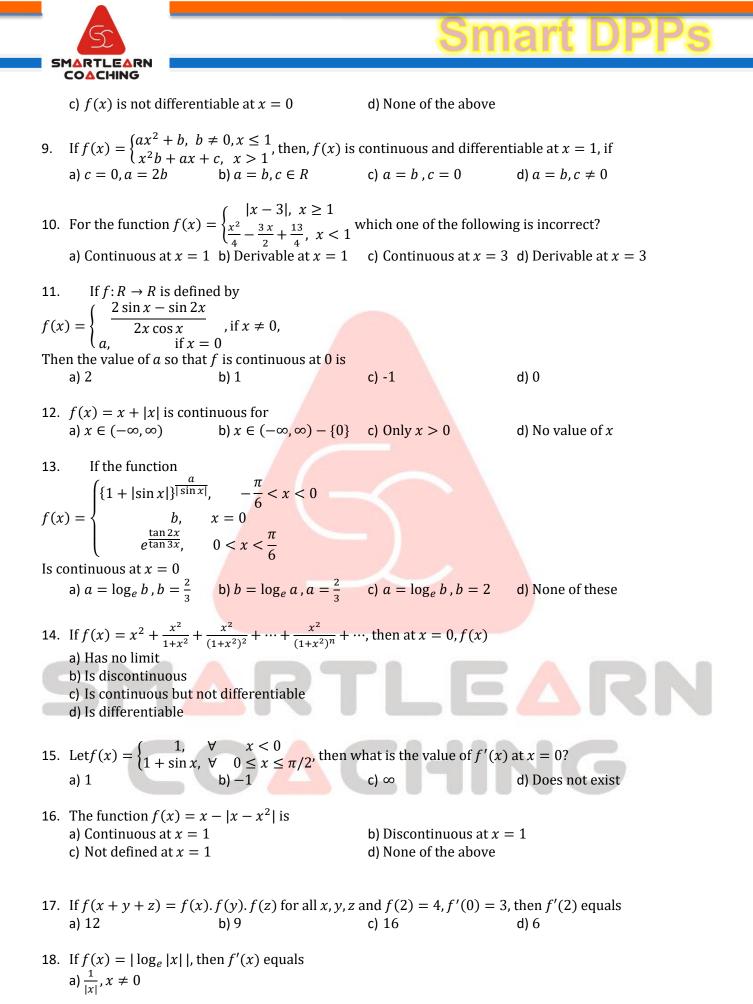


CLASS : XIIth DATE :

SUBJECT : MATHS DPP NO. : 1



MAHESH SIR'S NOTES - 7798364224





## **Smart DPPs**

b) 
$$\frac{1}{x}$$
 for  $|x| > 1$  and  $\frac{-1}{x}$  for  $|x| < 1$   
c)  $\frac{-1}{x}$  for  $|x| > 1$  and  $\frac{1}{x}$  for  $|x| < 1$   
d)  $\frac{1}{x}$  for  $|x| > 0$  and  $-\frac{1}{x}$  for  $x < 0$   
19. If the function  $f(x) = \begin{cases} \frac{1-\cos x}{x^2}, & \text{for } x \neq 0\\ k, & \text{for } x = 0\\ a \end{pmatrix} \text{ is continuous at } x = 0, \text{ then the value of } k \text{ is } k, & \text{for } x = 0\\ a \end{pmatrix} 1$  b) 0 c)  $\frac{1}{2}$  d) -1  
20. Function  $f(x) = |x - 1| + |x - 2|, x \in R$  is  
a) Differentiable everywhere in  $R$   
b) Except  $x = 1$  and  $x = 2$  differentiable everywhere in  $R$   
c) Not continuous at  $x = 1$  and  $x = 2$  d) Increasing in  $R$ 

## SMARTLEARN COACHING