

**Math1013 Calculus IB
Sample Final Exam Solution**

Part I: Multiple Choice Questions

MC Answers: White Version

Question	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
Answer	b	b	c	a	c	e	b	d	b	c	a	e	b	c	e	d	a	a	d	b	c	a

Brief answers to the white version

1. For which constant k can the function $f(x) = \begin{cases} 4e^x + x - k & \text{if } x \leq 0 \\ \frac{\sin kx}{x} & \text{if } x > 0 \end{cases}$ be continuous everywhere?
- (a) 1 (b) 2 (c) 3 (d) 4 (e) None of the previous

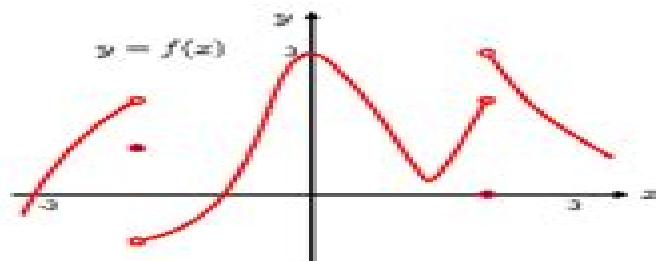
Solution

The answer is (b). f is continuous at any $x > 0$, or $x < 0$. To be continuous also at $x = 0$, need:

$$\lim_{x \rightarrow 0} (4e^x + x - k) = \lim_{x \rightarrow 0} \frac{\sin kx}{x} = k \lim_{x \rightarrow 0} \frac{\sin kx}{kx}$$

i.e., $4 - k = k$, and hence $k = 2$.

2. Find $\lim_{x \rightarrow -2^-} \frac{|f(|x|) - 2|}{f(x) + 1}$ according to the given graph of f below.



- (a) 0 (b) $\frac{1}{3}$ (c) $\frac{1}{2}$ (d) $\frac{2}{3}$ (e) Does not exist

Solution

The answer is (b). When $x \rightarrow -2^-$, $f(x) \rightarrow 2$, $|x| \rightarrow 2^+$, and $f(|x|) \rightarrow 3$, hence

$$\lim_{x \rightarrow -2^-} \frac{|f(|x|) - 2|}{f(x) + 1} = \frac{|3 - 2|}{2 + 1} = \frac{1}{3}$$

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J Ma



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