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MATH1042 May Test Calculus

Part 1: Main

Given the piece-wise defined function below, find the left and right hand limits that follow.

$$f(x) = \begin{cases} 2^x & x < 0 \\ 2 & x = 0 \\ \sin x & 0 < x < \frac{\pi}{2} \\ 1 & \frac{\pi}{2} < x \end{cases}$$

You may find it useful to sketch the curve first.

$$\lim_{x \rightarrow 0^-} f(x) = \underline{\hspace{2cm}}$$

$$\lim_{x \rightarrow 0^+} f(x) = \underline{\hspace{2cm}}$$

$$\lim_{x \rightarrow \frac{\pi}{2}^-} f(x) = \underline{\hspace{2cm}}$$

$$\lim_{x \rightarrow \frac{\pi}{2}^+} f(x) = \underline{\hspace{2cm}}$$

Answer Point Value: 4 points

Answer Key: 1, 0, 1, 1

Mathematics 20question 20paper

Christian Drosten



Mathematics 20question 20paper :

The book delves into Mathematics 20question 20paper . Mathematics 20question 20paper is a crucial topic that needs to be grasped by everyone, from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Mathematics 20question 20paper , encompassing both the fundamentals and more intricate discussions.

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