

Maths class 12 practice questions

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1. Show that the signum function $f: \mathbb{R} \rightarrow \mathbb{R}$ given by

$$f(x) = \begin{cases} 1 & \text{For } x > 0 \\ 0 & \text{For } x = 0 \text{ is neither one nor the other} \\ -1 & \text{For } x < 0 \end{cases}$$

2. Determine the principal value of $\cos^{-1}(-1/2)$

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