CMI(Chennai Mathematical Institute) Trigo question

User 3062 • 17 Jun 2025

Find all $x \in [-\pi, \pi]$ such that $\cos 3x + \cos x = 0$.

Pretty Interesting question for a beginner teenager in mathematics like me, thought that you guys might also like it. Took me about 8 minutes. (This is from the 2010 Paper iirc)