

Verified
Certificate

HarvardX

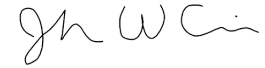
This is to certify that

Nandana Madhukara

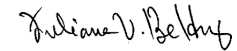
successfully completed and received a passing grade in

CalcAPL1x: Calculus Applied!

a course of study offered by HarvardX, an online learning initiative of Harvard University.



John Wesley Cain
Senior Lecturer on Mathematics
Harvard University



Juliana V. Belding
Professor of the Practice
Boston College



Verified Certificate
Issued August 11, 2021

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