

**Verified**  
Certificate



This is to certify that

**Johannes Pawelczyk**

successfully completed and received a passing grade in

**18.01.1x: Calculus 1A: Differentiation**

a course of study offered by MITx, an online learning initiative of the Massachusetts Institute of Technology.

A handwritten signature in black ink, appearing to read "David Jerison".

David Jerison

Professor

Department of Mathematics

*Massachusetts Institute of Technology*

A handwritten signature in black ink, appearing to read "Gigliola Staffilani".

Gigliola Staffilani

Abby Rockefeller Mauzé Professor

Department of Mathematics

*Massachusetts Institute of Technology*

A handwritten signature in black ink, appearing to read "Sanjay Sarma".

Sanjay Sarma

Vice President for Open Learning

*Massachusetts Institute of Technology*



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Issued November 20, 2022

**Valid Certificate ID**

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