

MATH 101 - 2 (FALL 2023)
QUIZ 4

Full name: _____ Student number: _____

Total: ____ / 10 pts.

(1) Evaluate the following limit

$$\lim_{n \rightarrow \infty} \sum_{i=1}^n \sqrt{\frac{i}{n^3}}.$$

(2) Evaluate the following integral

$$\int_{-1}^0 x^2 \sqrt{x+1} dx.$$