GRE PROBLEM SET #1

IMA STUDENT
MATH 488 - MATHEMATICS CAPSTONE - FALL 2019

Problem 2. The value of the integral $\displaystyle\int_0^1 \sqrt{e^{2x} + e^{-2x} + 2}\, dx$ is

(1) $e - \frac{1}{e}$

(2) $e + \frac{1}{e}$

(3) $e - \frac{1}{e} + 1$

(4) $e + \frac{1}{e} - 1$

(5) $2e$

Solution. $\qquad\qquad\qquad\qquad\qquad\qquad\qquad\qquad\qquad\qquad\qquad\qquad\qquad$ □