

MATH CHALLENGE

of the ECU Math Club

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MC9

Without the use of a computer or calculator, evaluate the definite integral

$$\int_1^{2019} \frac{\sqrt{x}}{\sqrt{2020-x} + \sqrt{x}} dx.$$

Submissions due: 12:00pm, February 10, 2020

Submit solutions to Wallace 410 or to Atilla.Sit@eku.edu (PDF only).

Solutions must include all supporting work.

Top solvers will be recognized.

