MATH CHALLENGE

of the EKU Math Club

MC1

Prove that for any positive real numbers a, b, c and d,

$$\sqrt{ab} + \sqrt{bc} + \sqrt{cd} + \sqrt{da} \le a + b + c + d.$$

Submissions due: 12:00pm, March 8, 2019

Submit solutions to Dr. Sit as hard copy to Wallace 410 or as email to Atilla.Sit@eku.edu (PDF only). Solutions must include all supporting work.

Top solvers will be recognized.