

To CPAM members

The following problem came to me via Common Core days.

The actual solution is important, however I am more concerned with the number of different solution paths.

This can be done:

With technology

Without technology

With Calculus

Without Calculus

My claim is that this should be able to be solved by Geometry through Calculus students.

I will post the solutions that I have in April.

I will also post solutions from anyone who submits them to me.

If you want to submit a solution, please submit it as a readable PDF.

Send to tom@tomreardon.com

Place 'The Mast Problem' in the description box so that I can locate it more easily.

Enjoy,

Tom

OH '97

CPAM Past President

The Mast Problem

(revised)

Locate point A on segment CE such that

$BA + AD$ is a minimum.

What is that minimum value?

Justify your answer.

Attempt to solve in as many ways as possible.

