

SIUC Mathematics Department

Video Challenge Problem 2019 is here! To show that you have solved this problem, you must prepare a video showing all the work and a complete verbal description of your reasoning. Upload the video to YouTube, and then post a link to the video on the SIU Math department Facebook page (www.facebook.com/siucmath), so it will be time-stamped.

The deadline is Friday, 3/22/19 at 4pm. The first math team with a correct video solution will receive \$300.

The names of the presenter, students in the group and the school need to be specified at the beginning of the video presentation. No help from individuals outside the group should be taken to solve the challenge problem.

Sometimes we find that an uploaded solution is only partially correct. So if you have a different way of solving the question than the one already uploaded, go ahead and upload your solution. We will consider the merits of all uploaded solutions to determine the award recipient.

Video Challenge Problem 2019

A rectangle of area 18 and height 2 is drawn inside a circle of diameter 15, as shown in the figure. Find the length of the segment AB, which extends the diagonal of the rectangle.

