



LEWIS AND CLARK COLLEGE  
Department of Mathematical Sciences

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PUZZLE OF THE WEEK (4/13/2017 - 4/19/2017)

Seven circular disks, each of radius 1, completely cover a big circular disk of radius  $R$ . What is the largest possible value of  $R$ ? Justify your claim. To clarify: the disks are assumed to be closed, that is, they include their circumferences.

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- Correct solutions to the Puzzle of the Week #11 were submitted by Rosemary Arends, Leo DiGiosia and Chris Karagiannis. Congratulations! Also, Iva apologizes to Surajit Rajagopal for overlooking the correct and on-time submitted solution of the Puzzle #9.
- One possible complete solution of the Puzzle #11 is posted online. (Look for the Puzzle of the Week announcements on the departmental web-page.)
- Solvers should include their full name and some kind of a contact information. Solutions should be submitted to **Iva Stavrov** in BoDine 305; email submissions are encouraged (istavrov at lclark). Solutions should be received by the end of the day on **April 19th, 2017**.