## PUZZLE OF THE WEEK (10/12/2016 - 10/18/2016)

Let  $A_1A_2...A_n$  be a regular polygon inscribed in a circle of radius 1. Find, with justification, the maximum value of

$$|PA_1| \cdot |PA_2| \cdot \dots \cdot |PA_n|$$

as P ranges over the circumcircle. (Here  $|PA_k|$  denotes the length of the line segment  $PA_k$ .)

- Puzzle of the Week #6 was correctly solved by David Lovitz and Fisher Ng, although Iva has to admit that she couldn't fully understand some steps in their solutions. Congratulations nonetheless!
- One possible solution of the Puzzle #6 is posted online. (Look for the Puzzle of the Week announcements on the departmental web-page.)
- Solvers of this week's puzzle should include their name, address, and status at the College. 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 **Tuesday**, **October 18th 2016**.