

Problem of the Week

Finishing date: 04/28/2017

Let A, B, C and D_1 denote four solid balls tangent to each other. Ball D_1 has radius equal to 1. Denote by D_2 the ball tangent to A, B, C and D_1 . Denote by D_3 the ball tangent to A, B, C and D_2 , and so on D_{n+1} is the ball tangent to A, B, C and D_n . Find the radius of D_{2017} .

Previous problem winners:

Brendan Caseria (first solution) and Stephen Skapek.



All the information about the Problem of the Week challenge can be found at http://ProbOfTheWeekUTD.wordpress.com