

Problem 5 (due Monday, April 10)

Consider a set  $S$  of  $n$  distinct points on a plane. A circle is called minimal for  $S$  if every point of  $S$  is either on the circle or inside the circle and there are at least 3 points from  $S$  on the circle. What is the largest possible number of minimal circles a set with  $n$  points can have?

We did not receive any correct solutions (we received one solution which was not correct). The answer to the problem is  $n-2$  for all  $n \geq 3$ . For a detailed solution see the following link [Solution](#).

From:

<https://www2.math.binghamton.edu/> - **Department of Mathematics and Statistics, Binghamton University**

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