

Problem 2 (due Monday, February 17)

Let $d(n)$ be the smallest number such that among any $d(n)$ points inside a regular n -gon with side of length 1 there are two points whose distance from each other is at most 1. Prove that

(a) $d(n) = n$ for $4 \leq n \leq 6$.

(b) $\displaystyle \lim_{n \rightarrow \infty} \frac{d(n)}{n} = \infty$.

For a complete solution see the following link [Solution](#).

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