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 $4 \le n \le 6$.$

. (b) $\scriptstyle \$ (b) $\scriptstyle \$ (b) $\scriptstyle \$ (c) $\scriptstyle \$ (b) $\scriptstyle \$ (c) $\scriptstyle \$ (d(n)) $\scriptstyle \$ (n)=\infty $\scriptstyle \$.

For a complete solution see the following link Solution.

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