HW 4 A (Star Questions: 243)
1. Show the following "quasi-regularity"
[Woperlies for order-measure
$$m^*$$
: Let
 $m^*(A) < +\infty$. Then
(i) $m^*(A) = inf\{m(G): open G \ge A\}$
(ii) $= a G_{\delta} - set H := \bigcap G_n \supseteq A s.t. m(H) = ht^*(A)$
(where each G_n is open).

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3. Let I:=[a,b] be a nonempty finite length interval. Show that it intrisects its "Shifted interval 3+I and 4h at $I \cup (3+I)$ is an intrival with length \leq $(I+\delta) \cdot l(I)$ provided that $|3| \leq \delta \cdot l(I)$ and $\delta \in (0,1)$.

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