Warm up HW1 , Math 330, Fall 2014

Ayman Badawi

QUESTION 1. Submit your work on Thursday Oct 16 at noon (just leave it on the table as you enter the room)

(i) Draw a line segment, say $\overline{AB}$. Divide $\overline{AB}$ into three line segments , say S_1, S_2, S_3 such that $|S_2| = 2|S_1|$, and $|S_3| = 0.5|S_1|$. ONLY unmarked ruler an a compass are allowed in the construction. Briefly Justify your work.

(ii) Draw two line segments say $\overline{AB}$, and $\overline{CD}$. Construct a line segment, $\overline{MN}$, such that $|AB||MN| = |CD|$. Only unmarked ruler, a compass, and 1cm line segment are allowed in the construction. Briefly justify your work.

Faculty information

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