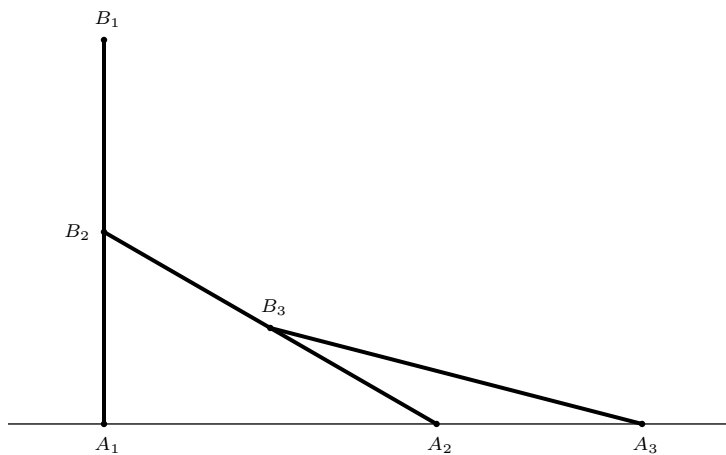


## A Simple Construction of the Golden Section

Jo Niemeyer

Three equal segments  $A_1B_1$ ,  $A_2B_2$ ,  $A_3B_3$  are positioned in such a way that the endpoints  $B_2$ ,  $B_3$  are the midpoints of  $A_1B_1$ ,  $A_2B_2$  respectively, while the endpoints  $A_1$ ,  $A_2$ ,  $A_3$  are on a line perpendicular to  $A_1B_1$ .



In this arrangement,  $A_2$  divides  $A_1A_3$  in the golden ratio, namely,

$$\frac{A_1A_3}{A_1A_2} = \frac{\sqrt{5} + 1}{2}.$$

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