## SYMMETRIES WITH GREEK MEANS

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Abstract. A mean $N$ is called complementary to $M$ with respect to $P$ if it verifies the relation

$$
P(M(a, b), N(a, b))=P(a, b), \forall a, b>0 .
$$

We look for the complementary of a Greek mean with respect to another. We determine all the cases in which it is again a Greek mean.

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