Generalized Inverses of Means

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ABSTRACT. A mean N is called complementary to M with respect to P if it verifies the relation
$$P(M(a,b), N(a,b)) = P(a,b), \forall a, b > 0.$$
The complementary of M with respect to the geometric mean was called by C. Gini the inverse of M. We call the complementary of M with respect to a weighted geometric mean, generalized inverse of M. We study some generalized inverses, using the series expansion of means.

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