1. Find the maximum entropy distributions over the following sets with the described constraints.
   1. The whole real line constrained to have a given value of its variance.

such that

* 1. The nonnegative real-half line constrained to have a given geometric and arithmetic mean.

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Defined over support

Constrained to have given geometric mean:

* 1. The whole real line constrained to have a given mean and absolute mean.

=

3.