**Example 3.3**

**Research of random number generators**

Random numbers on segment (a, b) have uniform distribution.

**a)** Expected value  and 

**b)** Dispersion  and 

Let's rewrite the mean and dispersion for the segment (0, 1):

**a)** Expected value .

**b)** Dispersion .

Let's look at three different random number generators:

1) Standard maple generator

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2) The initial data is the processor time

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3) Random number generator from a literary source

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Example program for calculating mean and variance

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For each random number generator, construct tables M, Ds, Dev and draw a conclusion about the best generator.