

**SOLVING A**

Primero computamos la probabilidad de cada edad:

Luego calculamos el promedio de los cuadrados de las edades:

El siguiente script de javascipt puede ser usado para validar los resultados.



Usage:



Example:



Al computar la función anterior se puede determinar que efectivamente

**SOLVING B**

Primero calculamos el avg



Usage:



Example:



Al computar la función anterior se puede determinar que efectivamente

Ahora calcularemos la distancia entre y

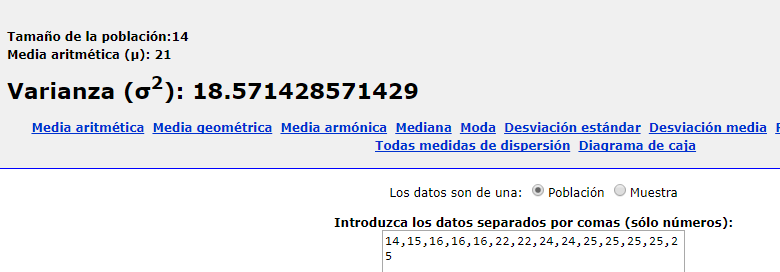
Now let`s use equation [1.11] for calculate the standard deviation



First we square each distance.

Now let`s calculate varince, note that was squared in last step so we won`t doet again in the formula of average of j squared.

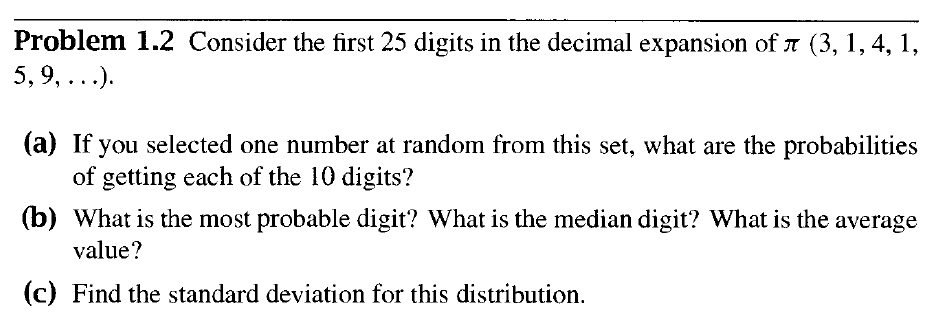
You can vlidate the result using a variance calculator and indrocind the respective values, next i post and screendshot of my validation process.



The previous calculator can be found [here](http://www.alcula.com/es/calculadoras/estadistica/varianza/).

**SOLVING C**





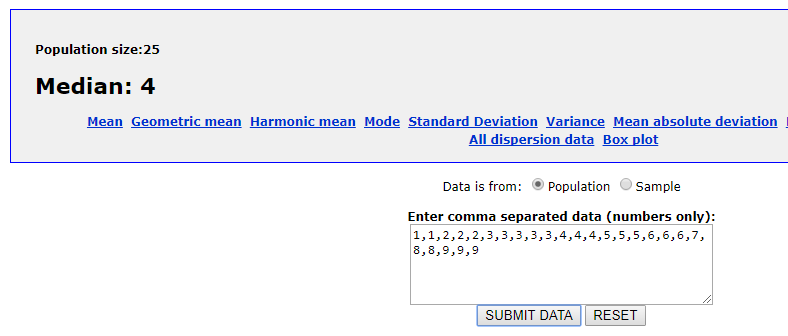
The 25 first numbers of pi are:

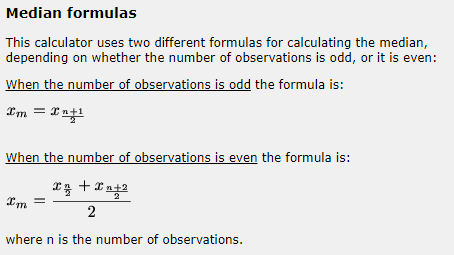
And

**SOLVING A**

**SOLVING B**

The most probable digit is 3. While the median is:



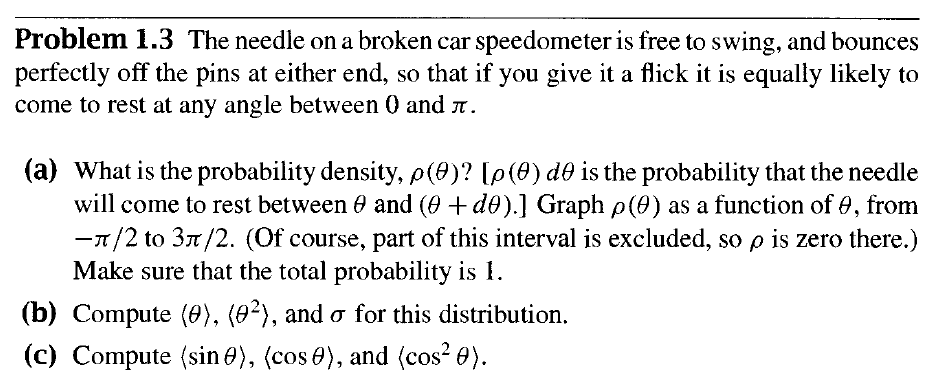


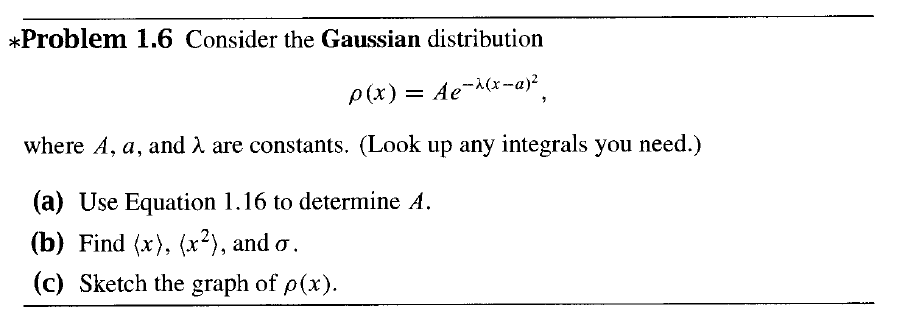
And the average 

**SOLVING C**

The standart deviation







[*How integrate gaussian function*](https://www.wikihow.com/Integrate-Gaussian-Functions)