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Example: database export

The electric power represented by the letter, P, is delivered by the battery as a function of the resistance. R is:

 $P:=\frac{100 R}{(0.5+R)^2}$

dependence on electric power of resistance

Find the maximum power of P within in the range of $0 \le R \le 20$ and export the dependence data so we can use them later on.

Solution:

We have the dependence function, now we will calculate the first derivative of the function and use it to find it's maximum.



Example: database import

The electric power, P, which is delivered by the battery as a function of the resistance, R, is:

$$P:=\frac{100 R}{(0.5+R)^2}$$

dependence on electric power of resistance

Plot the power as a function of the resistance using the data saved in database file.

Solution:

The Graph confirms the calculations that we performed in the Database export.mdd file.

