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File:Damped oscillation function plot.svg

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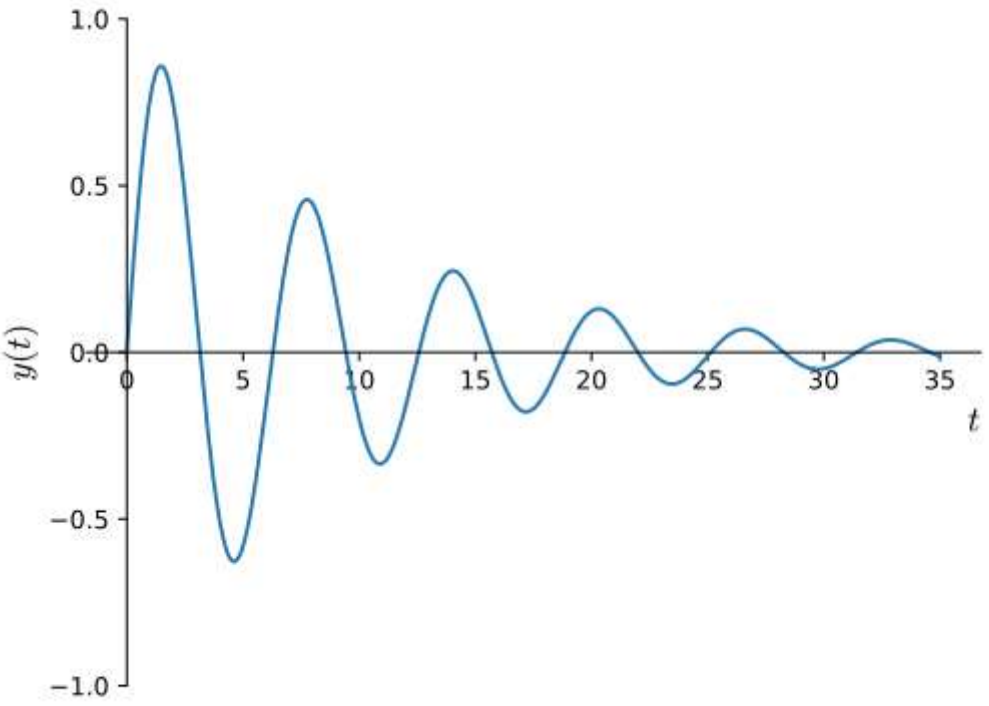

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File information | **Structured data**

Captions **Edit**

English Exponentially decaying sine function.

1 more language

Summary

Description	**English:** Exponentially decaying cosine function $y(t) = e^{-0.1t}\sin(t)$ **Español:** Función coseno que decae exponencialmente $y(t) = e^{-0.1t}\sin(t)$
Date	26 February 2022
Source	Own work
Author	Nicoguaro
SVG development	The source code of this SVG is **invalid (https://validator.w3.org/check?uri=https** This W3C-*invalid* plot was created with Matplotlib. The file size of this SVG plot
Source code	**Python code**

```python
import numpy as np
import matplotlib.pyplot as plt


plt.rcParams["mathtext.fontset"] = "cm"

t = np.linspace(0, 35, 500)
y = np.exp(-0.1*t)*np.sin(t)
plt.plot(t, y)


plt.xlabel("$t$", fontsize=14, loc="right")
plt.ylabel("$y(t)$", fontsize=14)
plt.yticks([-1, -0.5, 0, 0.5, 1])

ax = plt.gca()
ax.spines['right'].set_color('none')
ax.spines['top'].set_color('none')
ax.xaxis.set_ticks_position('bottom')
ax.spines['bottom'].set_position(('data',0))
ax.yaxis.set_ticks_position('left')
ax.spines['left'].set_position(('data',0))
plt.savefig("Damped oscillation function plot.svg")
plt.show()
```

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	Date/Time	Thumbnail	Dimensions	User	Comment
current	**16:29, 26 February 2022**		576 × 432 (20 KB)	Nicoguaro (talk | contribs)	Uploaded own work with UploadWizard

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