

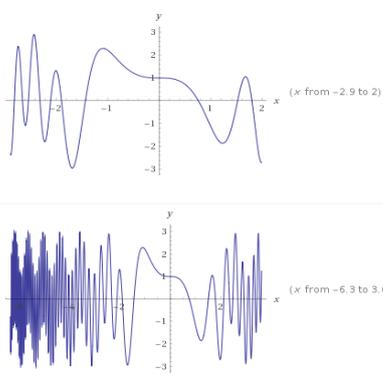
Zadanie 1 a)

plot  $f(x)=\cos(x^2)-2\sin(x^3)$

Assuming 'plot' is a plotting function | Use as referring to geometry instead

Input interpretation:  
plot  $f(x) = \cos(x^2) - 2\sin(x^3)$

Plots:



Open code

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b)

derivate  $f(x) = x^3 - x^2 + 5x$

Input interpretation:  
differentiate  $f(x) = x^3 - x^2 + 5x$  with respect to  $x$

Open code

Result:  
 $f'(x) = 3x^2 - 2x + 5$

Alternate form:  
 $x(3x - 2) + 5 = f'(x)$

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Related Queries:  
product rule, quotient rule, chain rule      how old would Marius Sophus Lie be today?

c)

WolframAlpha computational intelligence.

maximize  $f(x) = -x^2 + 5$

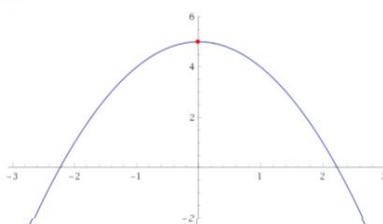
Interpreting "maximize" as "maximize"

Input interpretation:  
maximize  $-x^2 + 5$

Open code

Global maximum:  
 $\max[-x^2 + 5] = 5$  at  $x = 0$

Plot:



(x from -3 to 3)

## Zadanie 2.

472 base 8 to base 2

Assuming "472 base 8" is a base 8 number | Use the input as a formula instead

Input interpretation:  
convert 472<sub>8</sub> to base 2

Result: 100111010<sub>2</sub>

Show exponent form  Step-by-step solution

Open code

153 base 8 to base 2

Assuming "153 base 8" is a base 8 number | Use the input as a formula instead

Input interpretation:  
convert 153<sub>8</sub> to base 2

Result: 1101011<sub>2</sub>

Show exponent form  Step-by-step solution

Open code

Decimal form:  Step-by-step solution

544 base 8 to base 2

Assuming "544 base 8" is a base 8 number | Use the input as a formula instead

Input interpretation:  
convert 544<sub>8</sub> to base 2

Result: 101100100<sub>2</sub>

Show exponent form  Step-by-step solution

Open code

1101001001 base 2 + 1001 base 2

Assuming "1001 base 2" is a base 2 number | Use "base" as a word or a unit instead

Input interpretation:  
1101001001<sub>2</sub> + 1001<sub>2</sub>

Result: 1101010010<sub>2</sub>

Show exponent form

Open code

5467271 base 8 - 14311 base 8

Assuming "14311 base 8" is a base 8 number | Use "base" as a word or a unit instead  
Assuming "5467271 base 8" is a base 8 number | Use "base" as a unit instead

Input interpretation:  
5467271<sub>8</sub> - 14311<sub>8</sub>

Result: 5452760<sub>8</sub>

Show exponent form

Open code

zadanie 3.

a)

9th december 1999

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Input interpretation:  
Thursday, December 9, 1999 [Open code](#)

Date formats: [More formats/calendars](#)  
1999-12-09 (year-month-day)

Anniversaries for December 9, 1999: [More](#)

- birth of Elle Evans (1989- ): 10<sup>th</sup> anniversary
- birth of Eric Bledsoe (1989- ): 10<sup>th</sup> anniversary
- birth of Canibus (1974- ): 25<sup>th</sup> anniversary
- Chiang Kai-shek loses control of Mainland China (1949): 50<sup>th</sup> anniversary
- SS Col. Eichmann is found guilty of war crimes (1961): 38<sup>th</sup> anniversary

b)

second of tuesday may 1942

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Input interpretation:  
2<sup>nd</sup> Tuesday of May 1942

Result:  
Tuesday, May 12, 1942

Date formats: [More formats/calendars](#)  
1942-05-12 (year-month-day)

c)

morse | Aleksandra Werda

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Input interpretation:  
Morse code | Aleksandra Werda

Morse code translation:

•• — | •••• — | • — | —• — | ••• — | • — | —•• — | ••• — |  
A | L | E | K | S | A | N | D | R |  
• — | | • — | • — | ••• — | —•• — | • — |  
A | W | E | R | D | A

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