



Language: [EN](#) [PL](#)

Tupper's Formula Tools

This site:

- Plots Tupper's formula for given k , where $y \in <k, k+17)$ and $x \in <0, 106)$
- Calculates k number for given image (graph)

😊 About Tupper's (self-referential) formula



Tupper's self-referential formula is a formula defined by Jeff Tupper that, when graphed in two dimensions at a very specific location in the plane (...) visually reproduces the formula itself.

// Actually, it reproduces all possible images that are 106 pixels wide and 17 pixels high.

The formula is an [inequality](#) defined by:

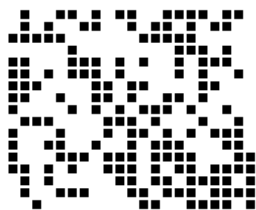
$$\frac{1}{2} < \text{mod}\left(\left\lfloor \frac{y}{2} \right\rfloor - \text{mod}\left(\left\lfloor \frac{x}{17} \right\rfloor, 17\right), 2\right)$$

where $\lfloor \cdot \rfloor$ denotes the [floor function](#), and mod is the [modulo operation](#).

[Read more on Wikipedia...](#)

[Watch "Numberphile" episode about The 'Everything' Formula \(yes, axes directions are wrong...\)](#)

Graph



[+] Graph options and functions

Graph to number



Number to graph



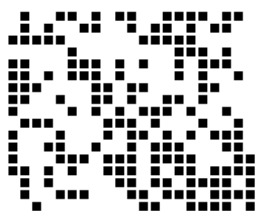
Number

1200051111111111111128214745228731605447243548823108856201272159888326808298159271709701084074848720561264376

[+] Number options and functions

(first make sure that graph and number are consistent) ☒ Include Tupper's formula?
Respects axes inversion and thousands separation.

$$\frac{1}{2} < \left\{ \text{mod} \left(\left\lfloor \frac{y}{2} \right\rfloor^2 - \text{mod} \left(\left\lfloor \frac{x}{2} \right\rfloor, N \right) \right), N \right\}$$



k = 1200051111111111111128214745228731605447243548823108856201272159888326808298159
271709701084074848720561264376

[Link to image \(open in a new window; doesn't seem to work with IE\).](#)
[Open image in a new window \(for IE\)](#)
[Link to this page with number](#)

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View source code for more information...