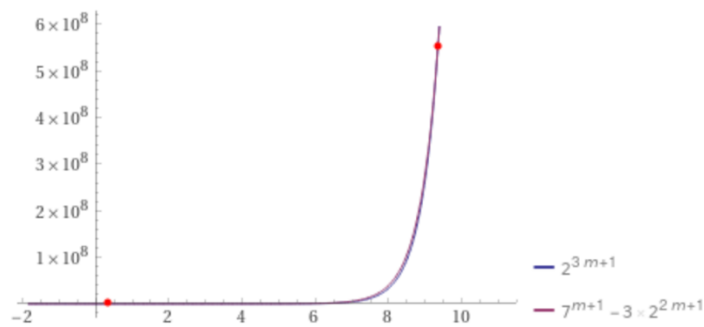


$$2^{3m+1} = 7^{m+1} - 6 \times 4^m$$

Plot:



Alternate forms:

$$2^{2m+1} (2^m + 3) = 7^{m+1}$$

$$7^{m+1} = 3 \times 2^{2m+1} + 2^{3m+1}$$

Number line:



Solutions:

[Exact forms](#)

[More digits](#)

$$m \approx 0.361502$$

$$m \approx 9.34737$$

Numerical solution:

[More digits](#)

$$m \approx 0.361501983573749...$$

- From above since $m = 9$, then $n = 2^m = 512$.

How practical does Strassen's algorithm seem?

The algorithm seems practical for large values of m , which makes n very big.