

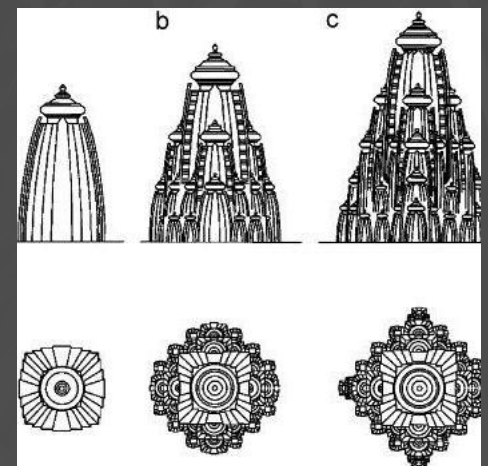
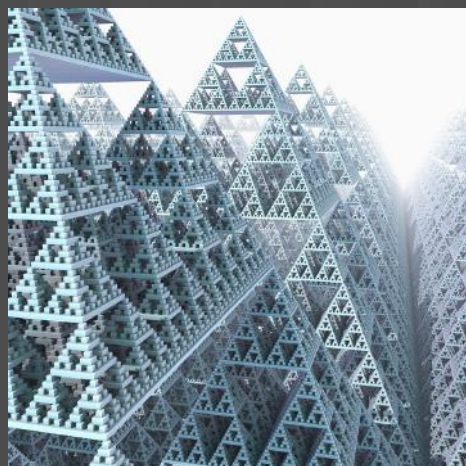
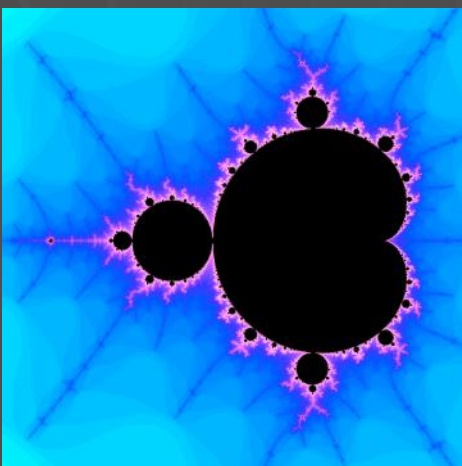
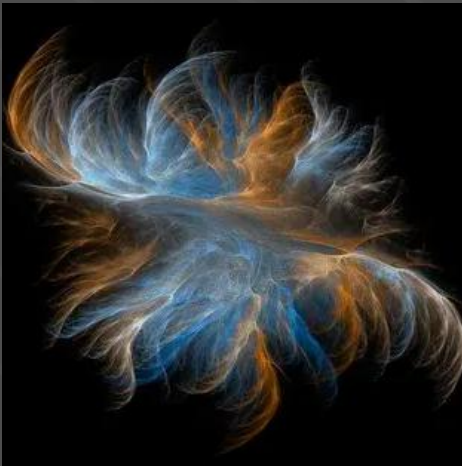
Math is the only place
where truth and beauty
mean the same thing.

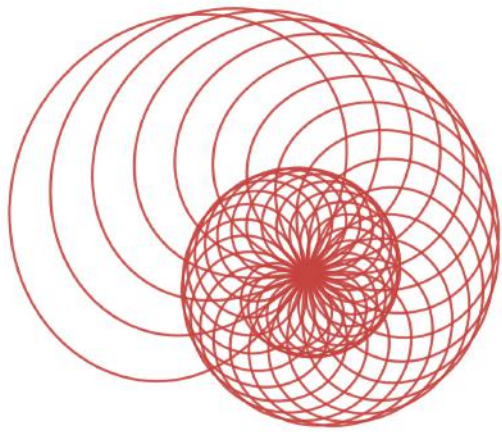
Danica McKellar

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**A mathematician is an artist
who paints reality with the
colours of numbers.**

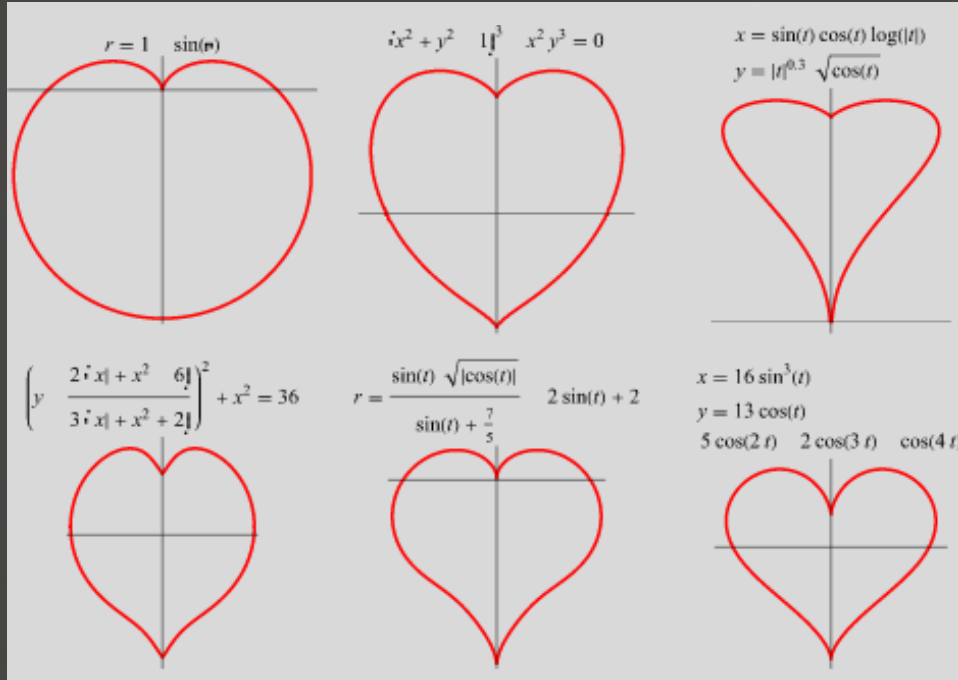
**Check out these images of self
repeating structures known as
fractals.**





$$r\theta = 600\sqrt{\cos\left(\frac{\theta\pi}{3}\right)}$$

$$24\pi \leq \theta \leq 100\pi$$



Numbers have an inherent truth and order in them such that they form amazing patterns.

$$\begin{aligned}
 1 \times 1 &= 1 \\
 11 \times 11 &= 121 \\
 111 \times 111 &= 12321 \\
 1111 \times 1111 &= 1234321 \\
 11111 \times 11111 &= 123454321 \\
 111111 \times 111111 &= 12345654321 \\
 1111111 \times 1111111 &= 1234567654321 \\
 11111111 \times 11111111 &= 123456787654321 \\
 111111111 \times 111111111 &= 12345678987654321
 \end{aligned}$$

$$\begin{aligned}
 1 \times 9 + 2 &= 11 \\
 12 \times 9 + 3 &= 111 \\
 123 \times 9 + 4 &= 1111 \\
 1234 \times 9 + 5 &= 11111 \\
 12345 \times 9 + 6 &= 111111 \\
 123456 \times 9 + 7 &= 1111111 \\
 1234567 \times 9 + 8 &= 11111111 \\
 12345678 \times 9 + 9 &= 111111111 \\
 123456789 \times 9 + 10 &= 1111111111
 \end{aligned}$$

$$\begin{aligned}
 142857 \times 1 &= 142857 \\
 142857 \times 2 &= 285714 \\
 142857 \times 3 &= 428571 \\
 142857 \times 4 &= 571428 \\
 142857 \times 5 &= 714285 \\
 142857 \times 6 &= 857142
 \end{aligned}$$

$$\begin{aligned}
 1^3 + 5^3 + 3^3 &= 153 \\
 16^3 + 50^3 + 33^3 &= 165033 \\
 166^3 + 500^3 + 333^3 &= 166500333 \\
 1666^3 + 5000^3 + 3333^3 &= 166650003333
 \end{aligned}$$