The Most Beautiful Math Equations

KaiserKatze

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1 Euler's identity

$$e^{i\pi} + 1 = 0$$

2 Pythagorean theorem

$$a^2 + b^2 = c^2$$

3 Quaternion

$$i^2 = j^2 = k^2 = ijk = -1$$

4 Euler characteristic

$$V - E + F = 2$$

5 Multinomial theorem

$$(x_1 + x_2 + \cdots + x_t)^n = \sum \frac{n!}{n_1! n_2! \cdots n_t!} x_1^{n_1} x_2^{n_2} \cdots x_t^{n_t}$$

6 Bayes' theorem

$$P\left(A|B\right) = \frac{P\left(A\right) P\left(B|A\right)}{P\left(B\right)}$$

Fin.