

## 17 Equations That Changed The World

1. The Pythagorean Theorem:  $a^2 + b^2 = c^2$
2. Logarithms:  $\log xy = \log x + \log y$
3. Calculus:  $\frac{df}{dt} = \lim_{h \rightarrow 0} \frac{f(t+h) - f(t)}{h}$
4. Law of Gravity:  $F = G \frac{m_1 m_2}{d^2}$
5. The square root of -1:  $i^2 = -1$
6. Euler's Formula for Polyhedra:  $F - E + V = 2$
7. Normal distribution:  $\Phi(x) = \frac{1}{\sqrt{2\pi\sigma}} e^{-\frac{(x-\mu)^2}{2\sigma^2}}$
8. Wave Equation:  $\frac{\partial^2 u}{\partial t^2} = c^2 \frac{\partial^2 u}{\partial x^2}$
9. Fourier Transform:  $\hat{f}(\omega) = \int_{-\infty}^{\infty} f(x) e^{-i\omega x} dx$
10. Navier-Stokes Equations:  $\rho \left( \frac{\partial v}{\partial t} + v \cdot \nabla v \right) = -\nabla p + \nabla \cdot \tau + f$
11. Maxwell's Equations:  $\begin{aligned} \nabla \cdot E &= \rho & \nabla \times E &= -\frac{1}{c} \frac{\partial B}{\partial t} \\ \nabla \cdot B &= 0 & \nabla \times B &= \frac{1}{c} \frac{\partial E}{\partial t} + \frac{1}{c} j \end{aligned}$
12. Second Law of Thermodynamics:  $dS \geq 0$
13. Relativity:  $E = mc^2$
14. Schrodinger's Equation:  $i\hbar \frac{\partial}{\partial t} \Psi = \hat{H} \Psi$
15. Information Theory:  $H = -\sum p(x) \log p(x)$
16. Chaos Theory:  $X_{t+1} = kx_t(1-x_t)$
17. Black-Scholes Equation:  $\frac{1}{2} \sigma^2 S^2 \frac{\partial^2 V}{\partial S^2} + rS \frac{\partial V}{\partial S} + \frac{\partial V}{\partial t} - rV = 0$



# Seventeen Equations That Changed The World

**J Spring**





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