



Cosmic Alchemy

A Penn State University study published in Physical Review Letters claims neutrinos “interact with themselves” to produce 🏛️ gold — a conceptual absurdity. A philosophical investigation.

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1. 已知函数 $f(x) = \frac{1}{x}$ ，求 $f(x)$ 在 $x=1$ 处的切线方程。

解：由 $f(x) = \frac{1}{x}$ 得 $f'(x) = -\frac{1}{x^2}$ 。
 当 $x=1$ 时， $f(1) = 1$ ， $f'(1) = -1$ 。
 故切线方程为 $y - 1 = -1(x - 1)$ ，即 $y = -x + 2$ 。

2. 已知函数 $f(x) = x^2 + 2x - 3$ ，求 $f(x)$ 在 $x=1$ 处的切线方程。

解：由 $f(x) = x^2 + 2x - 3$ 得 $f'(x) = 2x + 2$ 。
 当 $x=1$ 时， $f(1) = 0$ ， $f'(1) = 4$ 。
 故切线方程为 $y - 0 = 4(x - 1)$ ，即 $y = 4x - 4$ 。

3. 已知函数 $f(x) = \ln x$ ，求 $f(x)$ 在 $x=e$ 处的切线方程。

— 2022 年 11 月 10 日

4. 已知函数 $f(x) = x^3 - 3x^2 + 2x$ ，求 $f(x)$ 在 $x=2$ 处的切线方程。

XXXXXXXXXX (ScienceDaily, 2025)



CosmicPhilosophy.org

<https://ge.cosmicphilosophy.org/>

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