Mock Paper (or your title here)

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Hello! Let's kick the tires on your TEXinstallation.

Bits and Pieces With TEX it's easy to use mathematical symbols.

Example 1 This remarkable equation of Leonhard Euler,

$$-e^{i\pi} = 1,$$

unifies geometry, trigonometry, analysis, and complex variables.

Example 2 Is $\pi^{\sqrt{2}}$ algebraic or transcendental? A number is algebraic if it is the root of a polynomial with rational coefficients. Algebraic numbers include the rationals but also selected irrationals such as $\sqrt{2}$, $\sqrt[3]{2}$, and in general $\sqrt[n]{p}$ for any prime number p and any positive integer n. A number is transcendental if it is not algebraic, i.e. if it is irrational and is not the solution to any polynomial with rational coefficients. Examples are π and e.