

Mathematics without foundations

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17 VÉRITÉ D'ÉNONCÉ « ULTIMEMENT » DÉCIDABLE ?

although many people doubt that the continuum hypothesis has a truth value, everyone believes that the statement ' $10^{100} + 1$ is a prime number' has a truth value. Why? "Because the statement is decidable." But what does that mean, "the statement is decidable"? It means that it is *possible* to try out all the pairs of possible factors and see if any of them "work." It means that it is *possible* to decide the statement.