Math 300 Writing Assignment 2

Kevin Lei

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- 1. An irrational number is a real number that cannot be expressed as a ratio of integers, such as a fraction.
- 2. If x and y are real numbers, with x less than y, then there exists a rational number r such that x is less than r and r is less than y.
- 3. Pure mathematics topics often turn out to have applications, such as number theory in cryptography.
- 4. The function f is differentiable everywhere.
- 5. A real number greater than or equal to 0 is nonnegative.