Allowed assumptions in proofs

- The rules of algebra
  ex: x, y, and z are real numbers and $x = y$, then
  $x + z = y + z$

- The set of integers is closed under addition, multiplication, and subtraction
  i.e. sums, products, and differences of integers are also integers

- Every integer is either even or odd

- If x is an integer, there is no other integer between x and $x+1$

- The relative order of any two real numbers
  ex: $1/2 < 1$ or $4.2 \geq 3.7$

- The square of any real number is greater than or equal to 0