

# Scalar

- Scalar (i)**
1. Real numbers
  1. **Integers:**
    - $-3, -2, -1, 0, 1, 2, 3, \dots$
  2. **Fractions (Rational Numbers):**
    - $\frac{1}{2}, -\frac{3}{4}, 0.25, \dots$
  3. **Decimals:**
    - $3.14, -0.8, 2.718, \dots$
  4. **Whole Numbers:**
    - $0, 1, 2, 3, \dots$  (Similar to integers but excluding negative values)
  5. **Irrational Numbers:**
    - $\sqrt{2}, \pi, e, \dots$  (Numbers that cannot be expressed as fractions and have non-terminating, non-repeating decimal expansions)
  6. **Positive and Negative Numbers:**
    - $7, -10, 0, 0.5, -1.3, \dots$
  7. **Imaginary Numbers (when combined with real numbers):**
    - $2 + 3i, -1 - 4i, \dots$  (Complex numbers, where  $i$  is the imaginary unit)
  8. **Constants:**
    - $\pi$  (pi),  $e$  (Euler's number),  $\phi$  (Golden ratio), etc.

Examples:

2. Must have no direction

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