**Why**

We can think of combining vectors as sequential displacement.

**Visualization**

If you have never seen this before, it is worth staring at the following figure for some time.

Plane Vector Sums and Differences

Plane Vectors

Real Plane

Real Order

Rational Order          Real Numbers

Geometry          Rational Numbers

Integer Arithmetic          Lists

Integer Products          Natural Multiplicative Identity          Natural Additive Identity          Set Numbers

Arithmetic          Identity Elements          Finite Sets

Natural Powers          Equivalent Sets          Direct Products

Natural Products          Integer Sums          Integer Order          Comparisons          Function Inverses          Family Unions and Intersections

Natural Sums          Integer Numbers          Orders          Operations          Function Images          Function Composites          Families

Recursion Theorem          Equivalence Relations          Natural Order          Converse Relations          Functions

Peano Axioms          Relations

Natural Induction          Set Products

Natural Numbers          Set Powers          Generalized Set Dualities

Set Symmetric Differences          Partitions          Intersection of Empty Set          Successor Sets          Unordered Triples          Set Dualities          Set Unions and Intersections

Set Complements          Set Intersections          Pair Unions          Ordered Pairs

Set Differences          Set Unions          Pair Intersections

Empty Set          Unordered Pairs

Set Specification

Set Equality

Set Inclusion

Deductions

Quantified Statements

Logical Statements

Statements

Sets          Identities

Names

Letters          Objects