



Scalar vs. Vector

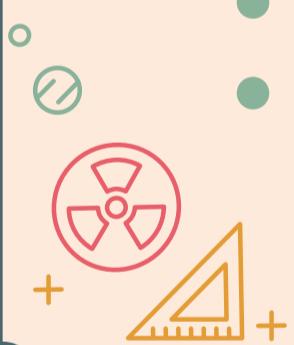
↓
number + unit
5.2 miles

↓
number + unit +
direction
5.2 miles south
+/- up/down
right/left
angle

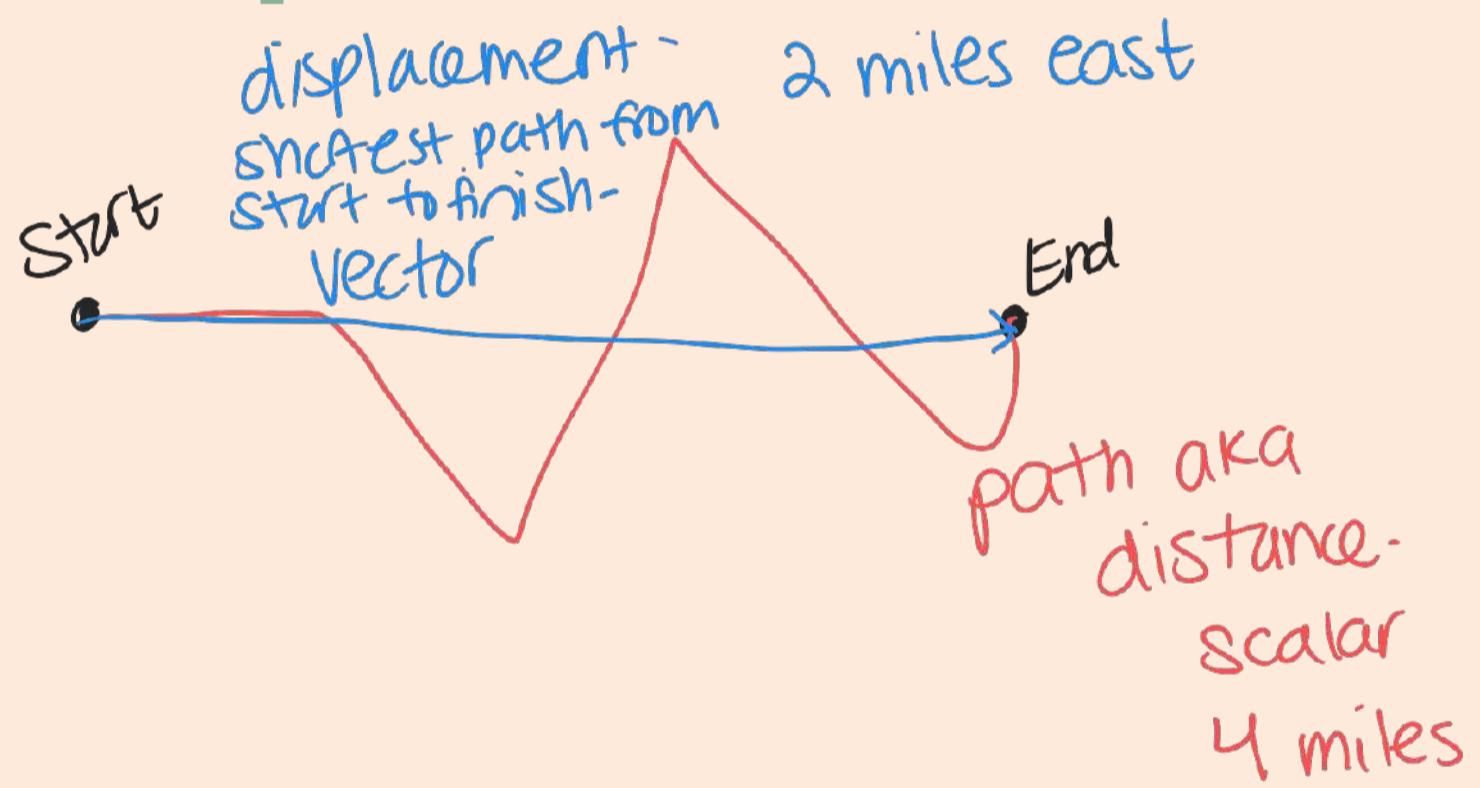


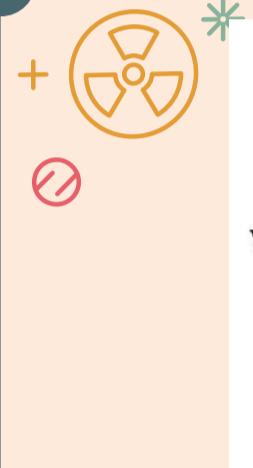
Scalar vs. Vector

- 10 mph S ✓
- 20 m/s east ✓
- +70 miles ✓
- 70 miles S ✓
- -70 miles ✓
- 100 km 34 degrees SE ✓



Distance vs. Displacement





Practice

1. A -> B $3\text{m}, 3\text{m} \uparrow$
2. A -> B -> C -> D $11\text{m}, 5\text{m} \rightarrow$
3. A -> B -> C -> D -> A $16\text{m}, 0\text{m}$
4. A -> D -> C -> B $11\text{m}, 3\text{m} \uparrow$
5. A -> D $5\text{m}, 5\text{m} \rightarrow$
6. A -> D -> C 8m

