

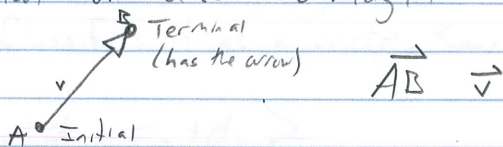
12-4 Review

12-5 Test

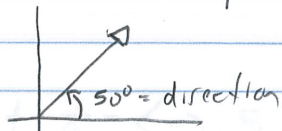
13-1

Vectors

Vector: A line segment with direction & magnitude (length)



Standard Position: Initial point is at the origin



Scalar vs. Vector

Scalar: has magnitude

Vector: has magnitude & direction

A boat going 15 mph

Scalar

A boat going 15 mph S15°E

Vector

A hiker walking 25 paces due west

Vector

A mass of 80 kg

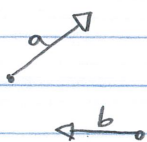
Scalar

A weight of 150 lbs on a scale

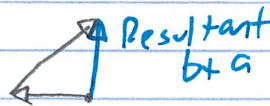
Vector (weight is pulled down by gravity)

Resultant Vectors:

Tip to Tail Method:

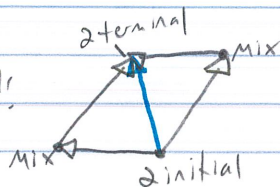


$$b + a =$$



Note direction of arrow:
 - starts @ start
 - ends @ end

Parallelogram Method:



CW/HW - worksheet 7.1